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THE AMERICAN UNIVERSITY

WASHINGTON

DISTRICT OF COLUMBIA

Announcements for 1952-1953

A University Located in a Great World Capital

COLLEGE OF ARTS AND SCIENCES

SCHOOL OF SOCIAL SCIENCES AND PUBLIC AFFAIRS

Graduate Division

Undergraduate Division

WASHINGTON COLLEGE OF LAW

Accredited by the

MIDDLE STATES ASSOCIATION OF COLLEGES
AND SECONDARY SCHOOLS

UNIVERSITY SENATE OF THE METHODIST CHURCH

*Schedules indicating the hour, location, and instructor of each course
are published prior to the opening of each session.*

Please address all communications to:

Office of Student Liaison
The American University
Washington 16, District of Columbia

THE AMERICAN UNIVERSITY,

Washington, D. C.

CATALOG

1952-1953

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CALENDAR 1952

SEPTEMBER							OCTOBER						
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1953

JANUARY							FEBRUARY						
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Fall Session 1952

OCTOBER 2
Fall session classes begin

NOVEMBER 27-30
Thanksgiving holidays

DECEMBER 21-JANUARY 4
Christmas holidays

FEBRUARY 2-7
Final examinations

FEBRUARY 7
Fall session classes end

Spring Session 1953

FEBRUARY 16
Spring session classes begin

FEBRUARY 24
Founders' Day

APRIL 5-9
Easter holidays

MAY 30
Memorial Day—a holiday

JUNE 8-13
Final examinations

JUNE 14
Commencement

Summer Session 1953

JUNE 22
Summer session classes begin

Fall Session 1953

OCTOBER 1
Fall session classes begin

CONTENTS

GENERAL INFORMATION

PAGE

CALENDAR	2
HISTORY AND PROGRAM	5
RESOURCES	9
UNIVERSITY LIBRARY	11
ADMISSION REQUIREMENTS	13
GRADUATION REQUIREMENTS	17
ACADEMIC INFORMATION	29
FINANCIAL INFORMATION	33
PICTORIAL	40

COURSES OF STUDY

ACCOUNTING	43
ART	46
ART HISTORY	50
BIOLOGY	52
BUSINESS ADMINISTRATION	55
CHEMISTRY	62
COMMUNICATION	64
ECONOMICS	66
EDUCATION	76
ENGLISH COMPOSITION AND LITERATURE	80
GEOGRAPHY	84
GEOLOGY	86
HISTORY	88
INTERNATIONAL RELATIONS AND ORGANIZATION	94
JOURNALISM	98
LANGUAGES	100
LAW	105
MATHEMATICS	109
MUSIC	115
NURSING EDUCATION	118
PHILOSOPHY	119
PHYSICAL EDUCATION AND HEALTH	120

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CONTENTS—Continued

COURSES OF STUDY—Continued	PAGE
PHYSICS	122
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION.....	124
PROFESSIONAL INSTITUTES	139
PSYCHOLOGY	140
PUBLIC RELATIONS	144
RELIGION	145
SECRETARIAL TECHNIQUES	147
SOCIOLOGY	148
SPEECH AND THEATER.....	153
STATISTICS	155
TELEVISION AND RADIO.....	159
 ADMINISTRATION.....	 162
 FACULTY.....	 164
 CORPORATION	 174

GENERAL INFORMATION

HISTORY AND PROGRAM

The American University was chartered by an act of the Congress of the United States of America on February 24, 1893. Its incorporation was the result of a conviction in the minds of Christian statesmen, educators, and industrial leaders that a significant graduate institution should be established in the Nation's Capital to organize the increasing rich opportunities for independent study and advanced research into a rigorous curriculum which would make the whole city a veritable university.

Bishop John Fletcher Hurst of The Methodist Church took the leadership in the organization of the University. On Christmas 1889 he reined his horse on a wooded slope in the north-west heights above the Potomac River, the site of Fort Gaines, one of the key defenses of the City of Washington during the Civil War. Stepping from his carriage, he looked toward the plains of Manassas and the Blue Ridge Mountains. "This hill is the place," he said to his companions. "On the site of this crumbling fort we shall build a university dedicated to the love of peace and human understanding."

The first university building, completed in 1898, was named Hurst Hall and designated as the College of History in appreciation of the services of Bishop Hurst, himself a distinguished historian who had taken his doctor's degree at Halle, Germany. The University was formally opened by President Woodrow Wilson on May 27, 1914, and the first instruction was offered in the Graduate School at the campus in the following year.

Metropolitan Campus

With the twentieth century the role of the United States in world affairs placed a new emphasis on public service in government. It was natural therefore that the University should be influenced in its development by the needs of the Nation's Capital.

The increasing importance of government led the trustees of the University in 1919 and 1920 to acquire property on F Street between 19th and 20th Streets now located midway between the White House and the Department of State. In this convenient location the University extended its professional programs to serve the more specialized needs of government workers concerned with the technical problems of governance and the broad backgrounds which are necessary to understanding the objectives of political action.

School of Social Sciences and Public Affairs

In 1934 the University's programs of public administration were organ-

ized into the School of Public Affairs which in 1941 was merged with the Graduate School to form the School of Social Sciences and Public Affairs with graduate and undergraduate divisions.

The School of Social Sciences and Public Affairs is organized under one faculty with deans designated to direct the graduate division and the undergraduate division.

The program of the School is coordinated through a Standing Committee which includes representation from the nine departments into which the curriculum of the School is divided:

Communication
Economics and Business Administration
History
International Relations and Organization
Mathematics
Political Science and Public Administration
Psychology and Education
Sociology and Public Welfare
Statistics

The faculty of the School comprises a fulltime instructional staff supplemented by scholars in the service of the specialized divisions of government and of national agencies located in Washington. This combination of teaching and research personnel brings to the class and seminar rooms the interaction of theory and practice.

College of Arts and Sciences

Until 1925, when the College of Liberal Arts (later redesignated the

College of Arts and Sciences) was established, The American University continued as an exclusively graduate institution. When the College opened the University therefore was already heir to more than three decades of graduate tradition. From the beginning it was a *university college*, an undergraduate division strongly influenced by the University activities of original inquiry and professional interest which surround it.

The program of the College of Arts and Sciences is organized by departments grouped into five divisions. These are:

I. Natural Sciences and Mathematics

Biology
Chemistry
Mathematics
Physics

II. Social Sciences

Economics
Education
Government
History
Psychology
Sociology

III. Humanities

Art
English
Modern Languages
Music
Philosophy
Religion

IV. Physical Education and Health

V. Student Affairs

Washington College of Law

In 1949 the Washington College of Law, established in 1895 and long a

neighbor of The American University with its location at 2000 G Street, merged with the University as a professional division. Its purpose is to offer a sound professional education to equip a student to pass the Bar examination, to enter the profession of law, or to undertake a career in the legal branches of the public service.

Professional Institutes

As a continuing public service the University offers through its various divisions short, intensive programs of study in professional institutes designed to meet the needs of students and persons already established in their professional fields who desire to increase their knowledge in specialized areas. The programs of these institutes are developed with the expert advice of the national organizations covering the individual field involved and are functionally related to the resources, specialists, and interests of the Capital.

Graduate Nursing Studies

The American University by inter-institutional agreements and affiliations cooperates in graduate programs in nursing and nursing education, and psychiatric nursing. Studies for graduate nurses are offered by the University at the campus, and at Saint Elizabeths Hospital.

Work-Study Program

The University offers a work-study program planned to enable young women to pursue academic work and enjoy genuine campus residence life while holding positions in government, business, and nursing which

provide income to pay all the university fees and living expenses. Work for the baccalaureate degree under the work-study program is completed in six instead of the conventional four-year period.

The Washington Semester

By interinstitutional agreement with other colleges and universities, The American University provides the opportunity for groups of selected students in their junior year to spend a semester in Washington. The program is thus known as the Washington Semester. Institutions cooperating in the program are Allegheny College, Beloit College, Birmingham-Southern College, Denison University, Dickinson College, Hamline University, Hiram College, Hollins College, Kenyon College, Lake Erie College, Lindenwood College, Millsaps College, Oberlin College, Transylvania College, Westminster College, Willamette University, William Jewell College, and Wooster College. The students live in a University residence hall, carry on individual and intensive study under the auspices of the School of Social Sciences and Public Affairs, and enjoy first-hand the meaningful experiences of the manifold national and international activities centering in Washington.

Bureau of Social Science Research

The Bureau of Social Science Research, located at 1710 Connecticut Avenue, Northwest, conducts basic inquiry in the social sciences. It also carries on applied research for governmental and private organizations.

Graduate Mathematics Program

In 1951 the University expanded its instruction and research in mathematics. The graduate mathematics program, which is intimately related to the National Bureau of Standards and in particular to its Division of Applied Mathematics and the National Applied Mathematics Laboratories, offers a broad curriculum of advanced mathematics courses taught by internationally recognized specialists.

The American University Concerts

The University sponsors two organizations that have an important place in the educational and musical life of the nation's capital.

The American University Chamber Music Society was the first permanent organization of its kind in greater Washington. Performing members of the society are drawn from the ranks of the music faculty of the University and from the circle of professional musicians in Washington.

The American University Concerts bring world-renowned musicians and orchestras to Washington for a notable series of concerts at Constitution Hall during the fall and spring. Subscriptions to the series are available to the public, and students of the University may obtain tickets at reduced rates.

American Language Center

The American Language Center,

located at 1729 F Street, Northwest, was established in 1952 under a grant from the United States Department of State and with the cooperation of embassies and various other official and private international agencies. The Center offers intensive instruction to foreign visitors in the English language, with incidental study of the history, government, customs, geography, economics, and culture of the United States. Families and community organizations in Washington cooperate in providing hospitality in homes, and the Center enjoys the use of the facilities of the Washington International Center.

Program in Art Education

In the 1952 fall session the University instituted a new program of research and training in the methods of art instruction for teachers in junior high schools. The program was made possible by a grant from the Agnes and Eugene E. Meyer Foundation.

Relations with The Methodist Church

From its beginnings The American University has been closely related to The Methodist Church, and its founding was endorsed by the General Conference of 1892 and in later actions by other Conferences and bodies of the Church. At the General Conference in 1952 The Methodist Church granted to the University the sum of \$100,000 a year for the quadrennium 1952-1956.

RESOURCES

The programs of The American University are offered through divisions located on two campus areas. The metropolitan campus is situated in the heart of the administrative area of the government midway between the White House and the Department of State and the northwest heights campus at Massachusetts and Nebraska Avenues.

NORTHWEST HEIGHTS CAMPUS

The original campus of the University, acquired in 1891, is located on the highest hilltop in the District of Columbia at Artermas Ward Circle where Massachusetts meets Nebraska Avenue. Covering seventy-five rolling acres extending from Nebraska northwest to University Avenue and from Massachusetts southwest to Rockwood Parkway, it has the quiet atmosphere traditionally associated with universities located far from metropolitan centers, yet it is 20 minutes by bus from the White House. The campus and buildings devoted to educational service are valued at \$3,500,000.

Hurst Hall (1898) is a three-story Vermont marble structure of Ionic architecture. Named to honor Bishop John Fletcher Hurst, it is a central educational unit with classrooms, laboratories, faculty offices, reading rooms, and recital hall.

McKinley Hall (1917) is a three-story Vermont marble structure named to honor William McKinley, twenty-fifth president of the United States, a trustee of the University who contributed to the erection of the building.

Mary Graydon Hall (1925) is a white-stone four-story residence hall for women named to honor one of

the great benefactors of the University. The University dining room is located on the first floor of the hall.

President's Residence (1925) is a colonial home occupying a high spot of ground near the Massachusetts Avenue side of the campus.

Clendenen Gymnasium (1926) is the center of women's physical activities, intramural sports, and dramatics. The building is named to honor Patrick Clendenen, a benefactor of the University.

Battelle Memorial Hall (1926) is a three-story white-stone building housing the main library, periodical room, music listening rooms, and the business and administrative offices of the University. It was the gift of Gordon E. Battelle.

Hamilton House (1930) is a three-story gothic fieldstone residence hall for men. It is named to honor Bishop John W. Hamilton and Bishop Franklin Hamilton, chancellors of the University.

McCabe House (1942) is a one-story frame residence hall. It has a large open fireplace and comfortable lounge.

Hutchins House (1942) is a one-story frame building housing the central offices of the University Examination Authority and the service functions of the student personnel pro-

gram. It has a large open fireplace and comfortable lounge.

Leonard Student Center (1943) is located on the campus east of Massachusetts Avenue. It contains a large gymnasium, swimming pool, six bowling alleys, music practice rooms, university store, television lounge, post office, stage, ping-pong room, coffee shop, offices of the student association, student publications, and recreation rooms. The center is the headquarters of men's physical education, of intercollegiate athletics, and of intramural sports administration. The offices of the varsity coaches are located in the building.

Watkins Gallery (1946) provides space for continuing exhibits of the works of living artists and houses the C. Law Watkins Memorial Art Collection.

The American University Apartments (1946) include 56 furnished dwelling units for married students.

Roper House (1943) is a two-story frame structure located at the corner of Massachusetts and Nebraska Avenues on Ward Circle.

Daniel C. Roper Carillon (1946) located in Hurst Hall, is a gift of a group of American industrial leaders in memory of the late Daniel Calhoun Roper, for fifty years a public servant.

Osborn House (1948) is the residence-office of the University pastor. It is named to honor Albert Osborn, first secretary and librarian of the University.

Peyser-Judd House (1948) is the headquarters of the Washington Semester.

Television and Radio Center provides studio and other facilities for students of television and radio. Television station WMAL-TV, operated by the Evening Star Broadcasting Company, located its transmitter on the campus in 1947. The student-operated low-power campus radio station, WAMU, broadcasts programs to the University residence halls from studios in Leonard Student Center.

METROPOLITAN CAMPUS

The program of the School of Social Sciences and Public Affairs operates from six three-story buildings located between Nineteenth Street and Twentieth Street on F Street numbered 1901, 1903, 1905, 1907, 1911, and Collier Hall respectively. The buildings were acquired by the University in 1919 and 1920.

The Washington College of Law occupies a building located at the corner of 20th and G Streets.

CHAPEL

Chapel for students of the College of Arts and Sciences convenes in Metropolitan Memorial, a church erected as a "connectional monument to our beloved Methodism," as the General Conference of 1856 described the purpose. It is located at Nebraska and New Mexico Avenues.

Monthly convocations of the School of Social Sciences and Public Affairs are held in Concordia Lutheran Church, located at the corner of 20th and G Streets, Northwest.

UNIVERSITY LIBRARY

The American University Library operates as a function of the University faculty in charge of a University Librarian who holds the rank of full professor. The collection of 160,587 volumes is located with special reference to the curriculum and activities of the divisions of the University. Maps, manuscripts, source documents, musical recordings, slides, and films, as well as books, circulate from the library.

COLLEGE OF ARTS AND SCIENCES

The Library of the College of Arts and Sciences contains more than 80,000 books, periodicals, and phonograph records. *Battelle Memorial Library* includes a main reading room, two sound-conditioned music listening rooms, a music and art reading room equipped with Magnavox radio-phonograph, the administrative offices, the work rooms of the University library system, and the union card catalog.

Hurst Hall Library and Osborn Reading Rooms include the works on the natural and social sciences and all current periodicals.

The L. M. Alexander Endowment established and continues funds for the purchase of books in the field of economics. (Battelle Memorial Library).

The Artemus Martin Mathematical Collection consists of over 10,000 rare volumes and manuscripts bequeathed by Artemus Martin, the librarian and computer of the United States Coast and Geodetic Survey. The Dictionary of American Biography reports the library as "one of the finest private mathematical collections in America." (Hurst Hall).

The American Peace Society Library of 10,000 volumes was placed

in the custody of the University in 1941. The American Peace Society was organized in New York in 1828. (Hurst Hall).

The Bradley Collection was given to the University by Mrs. Philip Bradley. It is a specialized library of 800 volumes in French and Spanish devoted chiefly to the history of the Caribbean Area in the 18th and 19th centuries. (Battelle Memorial Hall).

The Korean Fund was established by the Korean Cultural Association of Honolulu to provide specialized books dealing with the culture and problems of Korea. (Battelle Memorial Library).

The College classes of 1936, 1938, 1942, and 1949 have established funds for books. The class of 1936 started the *Golder Memorial* browsing collection. (Battelle Memorial Library).

SCHOOL OF SOCIAL SCIENCES AND PUBLIC AFFAIRS

The Library of the School of Social Sciences and Public Affairs located at 1907-1911 F Street includes more than 60,000 carefully selected volumes devoted almost exclusively to the social sciences.

The League of Nations Information Service Library developed and do-

nated to the University by the late Kate Trenholm Abrams includes over 10,000 documents and publications of the League of Nations. (1907 F Street).

The *Watumull Foundation Collection* established by grant through the courtesy of Mr. and Mrs. Gobindram S. Watumull of Los Angeles and Honolulu provides volumes on India. (1907 F Street).

The *Library of the Teaching Institute of Economics* acquired between 1945 and 1950 by grants from the Alfred P. Sloan Foundation is integrated in the Library of the School of Social Sciences and Public Affairs.

A memorial fund established in honor of I. Thomas McKillop by his classmates will provide for the purchase of books in the field of public administration.

WASHINGTON COLLEGE OF LAW

The *Library of the Washington College of Law* is located at 2000 G Street, Northwest. It contains over 20,000 volumes including all United States statutes, decisions of the United States Supreme Court and of federal courts; the National Reporter System; standard English reports; the District of Columbia Code, regulations, and reports; encyclopedias, digests, citators, reference and search books and services; collateral reference works; and legal periodicals.

The *International and Comparative Law Collection*, a large part of which was the gift of the late Professor James Brown Scott, contains collections of treaties, documents dealing with the foreign relations of the United States, the classics of international law, and a substantial collection of digests.

ADMISSION REQUIREMENTS

The University admits students to the graduate division of the School of Social Sciences and Public Affairs, to the Washington College of Law, to the College of Arts and Sciences, and to the undergraduate division of the School of Social Sciences and Public Affairs.

GENERAL INFORMATION

APPLICATION PROCEDURE

Applications for admission to the College of Arts and Sciences and to the Graduate and Undergraduate Divisions of the School of Social Sciences and Public Affairs should be directed to the Office of Admissions, 1905 F Street, Northwest. Applications for admission to the Washington College of Law should be directed to the Registrar of the Washington College of Law, 2000 G Street, Northwest. Application forms may be obtained from these offices or from the Office of Student Liaison, Massachusetts and Nebraska Avenues, Northwest.

Application may be made for admission in the fall, spring, or summer session in all divisions except the Washington College of Law, which permits only those students who have already entered on their law studies to enroll in summer session courses. When requesting application blanks, the applicant should indicate whether he intends to register for fulltime or parttime study, the division in which he wishes to enroll, and the field or subject in which he wishes to specialize.

DOCUMENTS REQUIRED

An applicant for admission must

submit official itemized transcripts of previous academic work, letters of recommendation, or other information required by the division in which he wishes to enroll. In the case of fulltime undergraduate students, this includes a medical certificate on a form supplied by the University.

Applications and all credentials should be sent to the University well in advance of the opening date of the session for which the applicant wishes to enroll.

APPLICATION FEE

All fulltime undergraduate students and all law students must include a \$5 application fee. This fee is not refundable. An application fee is not required from graduate students or parttime undergraduate students.

FOREIGN STUDENTS

Foreign students who wish to enter the University must comply with all provisions of the Immigration Act. If they wish to enroll for academic credit, they must submit official copies of all their academic credentials together with certified translations of those credentials that are not in English. In addition to meeting the general admission requirements of The American University, foreign students

must furnish evidence of their ability to read, write, and speak English with sufficient facility to permit them to pursue academic work.

Further information about the procedure to be followed by foreign students may be obtained from the Office of Admissions.

UNDERGRADUATE DIVISIONS

MATRICULATED STUDENTS

The American University is interested in those graduates of public secondary schools and private preparatory schools who have aptitude for college work. While the University periodically revises its specific admission requirements on the basis of experience, admission normally is based on the following:

1. Graduation from an accredited secondary school with at least 15 acceptable units;
2. The quality of the academic record;
3. The recommendation from the school in which the applicant has taken his college preparatory work.

In addition, the applicant's health, extracurricular record, and evidence of his interest in and ability to pursue the types of University education offered by this institution are given consideration by the Committee on Admissions.

Applicants who have attended another accredited higher institution will be considered for admission on the basis of the official record of their previous work. When the applicant has less than 30 semester hours of advanced standing acceptable on transfer, the secondary school record also will be required.

NON-MATRICULATED STUDENTS

The Committee on Admissions may, on the basis of examinations administered by the University, consider some applicants who do not meet all the usual requirements for admission. These applicants may be admitted to conditional standing for a specified period, during which they must give evidence of their ability to pursue college work satisfactorily. When they have met this condition, they may be admitted to matriculated standing.

Special students. The University may admit as special students persons without a bachelor's degree who desire to take individual courses in a specialized field but who do not wish to receive credit toward a degree at The American University. An applicant for admission as a special student must be 21 years of age or over and must be qualified by previous experience, maturity, or interest to undertake work in the specialized field. The special student takes part in all classroom activities and assignments, and receives a grade, but such grade and credit represented by it is not applicable toward a degree at The American University unless the student establishes his eligibility for admission to matriculated standing as of the time he originally registered at this institution. The special student

may not register for more than ten semester hours at any one session.

Transfer students. An applicant who is a candidate for a degree at another accredited institution may be admitted for transfer credit on the basis of a statement from the Dean or the Registrar of that institution certifying that the student is in good standing and giving permission to take designated courses.

Auditors. The University provides opportunity for some students for reasons of professional or cultural ad-

vancement to audit courses, provided permission is obtained from the chairman of the department in which the course is offered. An auditor is not required to participate in classroom activity, is not checked for attendance, is not required to take examinations, and receives no grade or credit for the course. Undergraduate veteran students entitled to educational benefits under public laws may not register as auditors at government expense.

WASHINGTON COLLEGE OF LAW

Applicants for admission as candidates for the degree of bachelor of laws must present a satisfactory undergraduate record showing the completion of at least three-fourths of the work required for a baccalaureate degree granted on the basis of a four-year program of study pursued in an approved college or university. To meet this requirement an applicant must have completed at least ninety semester hours or 135 quarter hours of college work with a scholastic average at least equal to the average required for graduation in the institution attended. Non-theory courses or courses without substantial intellectual content are acceptable only in satisfaction of the hour requirements and only to the extent of 10% of the credits required for admission.

A student who has successfully pursued a portion of his law course in, and is eligible for readmission to, a law school which at the time the credit was earned was a member of

the Association of American Law Schools may be admitted to advanced standing upon proof of such prior study and after completion of one year of work with a quality point index of at least 1.0. To be eligible for a degree, such student, in addition to fulfilling the residence requirements, must complete in this College one fourth of the work required for the degree of bachelor of laws.

A student who has successfully pursued a portion of his law course in, and is eligible for readmission to, a law school which at the time the credit was earned was not a member of the Association of American Law Schools, but who, nevertheless, is eligible to transfer to this College, may be admitted to advanced standing upon proof of such prior study and after completion of one year of work with a quality point index of at least 1.0. To be eligible for a degree such student, in addition to fulfilling the residence requirements, must complete in

this College one half of the work required for the degree of bachelor of laws.

A strictly limited number of students with less than the college credits required for admission may be admitted as special students provided

they are at least 23 years of age and there is evidence that their experience and training have equipped them to engage successfully in the study of law despite the lack of required college credit.

GRADUATE DIVISION

Admission to the graduate division may be granted to an applicant who holds a bachelor's degree from an accredited higher institution. Admission to either full or qualified standing will be determined by the undergraduate major and the quality of the undergraduate record in relation to the field in which the student proposes to study at the University.

Full standing is granted to an applicant whose record shows completion of an undergraduate major of at least 24 semester hours with an average grade of not less than "B" in the field in which he proposes to do graduate study.

An applicant whose record shows a deficiency in his undergraduate preparation may be admitted to qualified standing and may be required to take additional course work to remedy the deficiency.

The status of a student admitted to qualified standing is reviewed after completion of not less than 12 nor more than 24 semester hours of graduate work to determine whether he is eligible for admission to full standing. Admission to full standing is a prerequisite for continued registration in the graduate division.

A student admitted to full standing may continue to register at this

University as long as he maintains a satisfactory grade average. However, admission to the graduate division does not indicate admission to candidacy for a degree.

All applicants to the School of Social Sciences and Public Affairs who hold a bachelor's degree are required to submit an official transcript of their undergraduate work if they wish to receive credit, even though they do not intend to work toward a degree. However, students who wish to transfer graduate credit earned here to another accredited higher institution may be admitted on the basis of a statement from the Dean or the Registrar of that institution certifying that the student is in good standing and giving permission to take designated courses.

Applicants who do not wish to receive credit or a grade may be admitted as auditors and are not required to submit a transcript. Permission to take a course as an auditor must be secured from the chairman of the department in which the course is offered. Veteran students entitled to educational benefits under public laws may not register as auditors in the graduate division at government expense without the special permission of the graduate dean.

GRADUATION REQUIREMENTS

The curriculums of the University lead on the graduate level to the degrees of doctor of philosophy, master of arts, and master of business administration, on the professional level to the degree of bachelor of laws, and on the undergraduate level to the degrees of bachelor of arts, bachelor of science, bachelor of science in social science, bachelor of science in business administration, and bachelor of science in public administration. Associate programs provide curriculums as a step toward the baccalaureate degree or to terminal educational objectives.

UNDERGRADUATE DEGREES

BACCALAUREATE PROGRAMS

The American University in its undergraduate divisions offers programs of study leading to the degrees of bachelor of arts, bachelor of science, bachelor of science in social science, bachelor of science in business administration, and bachelor of science in public administration.

The University requires a minimum of 126 credit hours completed with an average of not less than C for all undergraduate degrees, and at least the last 30 hours must be completed in residence at The American University.

Organization of Degree Curriculums

The University believes that a student's program of studies should constitute a balanced educational experience. The studies, ordered in sequence and distributed by fields, are planned to give the student a sound general education, a more specialized acquaintance with a significant area of knowledge, and the opportunity to explore freely any subject matter of interest to him. For these reasons undergraduate degree requirements are arranged into five groups. These are:

- Group 1*—Basal Studies
- Group 2*—Distributed Studies
- Group 3*—Concentrated Studies
- Group 4*—Related Studies
- Group 5*—Elective Studies

Students in planning their degree programs with their counselors arrange their studies within the framework of these groups to achieve their academic and career objectives.

All courses in Group 3—Concentrated Studies—and in Group 4—Related Studies—must be completed with a grade of not less than C and they are usually selected from courses at the 300- to 500-levels.

BACHELOR OF ARTS

A candidate for the degree of bachelor of arts must complete 120 credit hours of academic course work and six hours of work in health and physical education.

Group 1—Basal Studies

	34 Hours	Hours
English Composition		6
English Literature		6
Modern Foreign Language . . .		12
Speech		4
Physical Education		6

A student who offers two years of foreign language for admission may satisfy the basal studies foreign language requirement by completing six hours of advanced work in the language presented for admission.

Group 2—Distributed Studies

38-40 Hours

To give the student a broad base of general knowledge for understanding himself and his world, the University requires the candidate to select at least the indicated number of hours of course work from each of the three following divisions with the understanding that the student may not offer more than eight hours of course work selected from any one department to fulfill the degree requirement in distributed studies and that the student must complete *two* sessions of course work in *one* of these laboratory sciences: biology, chemistry, geology, or physics.

<i>Area</i>	<i>Hours</i>
A. HUMANITIES	12
Art	
Art History	
English Literature — <i>courses not included in basal studies</i>	
Modern Foreign Languages— <i>courses not included in basal studies</i>	
Music	
Philosophy	
Religion	
Speech and Theater	
B. NATURAL SCIENCES AND MATHEMATICS	14-16
Biology	
Chemistry	
Geology	
Mathematics	
Physics	

C. SOCIAL SCIENCES 12

- Economics
- Education
- Geography
- Government
- History
- Psychology
- Sociology

Group 3—Concentrated Studies

24 Hours

In the upperclass years the student concentrates his studies under the direction of the faculty of one of the departments of instruction. The concentrated studies include at least 24 credit hours of work offered in the department of concentration and selected in conference with a counselor and approved by the chairman of the department.

The fields of concentration that may be selected by candidates for the bachelor of arts degree are:

- Art
- Art History
- Biology
- Chemistry
- Economics
- English
- French
- German
- Government
- History
- Mathematics
- Music—with *specialization in either music history and literature or public school music*
- Philosophy and Religion
- Physics
- Psychology
- Sociology
- Spanish

Group 4—Related Studies

12 Hours

Related studies provide opportunity for the student to select courses which supplement and strengthen his program of concentrated studies or which develop an area of study of secondary or cultural interest. Although the number of hours of related subjects depends upon the student's own concentration, career, and personal objectives, the minimum number is twelve. *Related subjects must be selected after conference with the counselor and with the approval of the chairman of the department of concentration.*

Group 5—Elective Studies

16-18 Hours

BACHELOR OF SCIENCE

A candidate for the degree of bachelor of science selects studies offered in the five groups outlined in the preceding section describing the requirements for the degree of bachelor of arts. The number of hours and the distribution of courses however differs.

Group 1—Basal Studies

30 Hours

	Hours
English Composition	6
Modern Foreign Language . . .	12
Mathematics	6
Physical Education	6

Basal Studies requirements for students whose field of concentration is nursing education total 25-27 credit hours, as follows: English Composi-

tion, 6 hours; English Literature, 6 hours; Science or Mathematics, 6-8 hours; Speech, 3 hours; and Physical Education, 4 hours.

Group 2—Distributed Studies

18 Hours

- A. Humanities
a minimum of six hours
- B. Social Sciences
a minimum of six hours

Group 3—Concentrated Studies

40 Hours

Fields of concentration may be selected by candidates from the following:

- Biology
- Chemistry
- Distributed Sciences
- Physics
- Nursing Education
- Physical Education

In general the requirement for concentrated studies is 40 hours but in each case the student's program must satisfy departmental requirements and be approved by the chairman of the department of concentration.

A student whose field of concentration is distributed sciences must complete *College Algebra 41.110* and *Trigonometry and Analytic Geometry 41.140*, and a total of 60 credit hours to meet the requirements of Groups 3 and 4. Any arrangement of science and mathematics courses may be selected to meet this requirement provided at least 24 credit hours of work is completed in courses offered by one department, 16 credit hours of work is completed in a closely allied field, and provided at least one consecutive year of course work is com-

pleted in each of two other fields of science or mathematics.

A student whose field of concentration is nursing education must complete 45-51 credit hours of work in this Group. Of these, 30-36 credit hours may be earned by completion of basic professional courses in nursing and 15 in courses in nursing education.

Group 4—Related Studies
20 Hours

A candidate for the bachelor of science degree must complete a minimum of 20 hours of work in courses related to his major objective but offered in departments other than that in which he is concentrating. The program of related studies must satisfy departmental requirements and be approved by the chairman of the department of the student's concentration.

Group 5—Elective Studies
20 Hours

**BACHELOR OF SCIENCE IN
SOCIAL SCIENCE**

The bachelor of science in social science degree is offered in the School of Social Sciences and Public Affairs to candidates who have a special concern for career specialization in the social sciences developed on the basis of a broad general education.

Group 1—Basal Studies
54 Hours

	<i>Hours</i>
A. COMMUNICATION	6
English Composition	6
B. THE SOCIAL ORDER	18
<i>including</i>	
Backgrounds of American Democracy	6

Principles of Economics	3
Introduction to World Politics	3
American Government: National	3
Sociology	3
C. THE PHYSICAL WORLD	6
<i>including</i>	
Physical Science: Energy (Physics)	3
<i>or</i>	
Physical Science: Matter (Chemistry)	3
<i>or</i>	
Science in Industry	3
<i>and</i>	
Earth Resources	3
<i>or</i>	
Introduction to Astronomy ..	3
D. THE HUMAN BEING	9
Human Biology	3
General Psychology	3
Logic and the Scientific Method	3
E. APPRECIATION OF VALUES	9
<i>Chosen from</i>	
Human Values in World Literature	3
Issues in Modern Literature ..	3
Survey of Art	6
History of Philosophy	3
Comparative Religions	3
F. COORDINATION COURSE	6

Group 2—Distributed Studies

In the School of Social Sciences and Public Affairs distributed studies are assimilated into the program of basal studies requirements.

Group 3—Concentrated Studies
24-30 Hours

The candidate may select an area of concentration from the following:

- American Literature
- Communication
- Economics
- History

International Relations and Organization
Journalism
Political Science
Psychology
Sociology
Statistics

Television and Radio—with specialization in programming, sales and management, or writing.

In general a student must offer a minimum of 24 hours of work completed in advanced courses in the department of his concentration. The student in all cases however must satisfy the requirements of his department and his program of concentrated studies must be approved by the chairman of his department. The various departments require as a part of their program the completion of certain introductory courses which are prerequisite to pursuit of advanced courses within the department. Where these courses are not acceptable as a part of the concentrated or related studies, the student must offer these introductory courses as a part either of the basal or elective studies.

Group 4—Related Studies
12-30 Hours

Each candidate for the degree of bachelor of science in social science must offer from 12 to 30 hours of course work related to his field of concentration, selected in conference with his counselor, and approved by the chairman of his department.

Group 5—Elective Studies
15-30 Hours

The candidate ordinarily may choose from 15 to 30 hours of free elective

courses. Any course offered for academic credit by the University and open to undergraduate students, satisfies the free elective studies requirement. The courses selected however must be approved by the counselor and the department of concentration. The department may under some circumstances require courses which are necessary to the student's program to be completed as a part of his elective studies.

**BACHELOR OF SCIENCE IN
BUSINESS ADMINISTRATION**

The bachelor of science in business administration degree is awarded by the School of Social Sciences and Public Affairs to candidates who have completed satisfactorily 126 hours of course work.

Group 1—Basal Studies
60 Hours

	Hours
A. COMMUNICATION	6
English Composition	6
B. SOCIAL ORDER	21
History of American Business Leadership	6
Structure of the American Economy	3
Economics of the Firm and Industry	3
International Economics	3
Sociology	3
Political Organization of Society	3
C. PHYSICAL WORLD	6
Earth Resources	3
Science in Industry	3
D. HUMAN BEING	9
General Psychology	3
Introduction to Social Psychology	3
Group Dynamics and Administrative Principles	3

E. APPRECIATION OF VALUES.....	6
Human Values in World Literature	3
Issues in Modern Literature	3
F. REQUIRED BUSINESS STUDIES.....	12
Fundamentals of Business Mathematics	3
Fundamentals of Statistics	3
Accounting	6

Group 3—Concentrated Studies

36-45 Hours

Fields of concentration that may be selected by candidates for this degree are:

- Accounting
- Advertising
- Banking
- Business and Industrial Management
- Insurance
- Personnel Management
- Real Estate
- Retailing
- Sales Management
- Transportation and Traffic Management

Group 4—Related Studies

12 Hours

All candidates for the degree must complete as a part of their related studies 12 hours of work in the following courses:

Financial Organization of Society	3
Corporation Finance	3
Taxation ¹	3
Marketing Organization	3

The related studies requirement may be increased at the discretion of the Department of Economics and Business Administration.

Group 5—Elective Studies

9-18 Hours

The elective studies requirement varies from 9 to 18 hours of course work. Any courses offered for credit in the undergraduate divisions of the

University may be accepted to meet this requirement, but candidates for the degree may in some cases be obliged to offer as elective studies prescribed courses that must be completed in order to compensate for background or subject-matter deficiencies in business studies or in the field of concentration.

BACHELOR OF SCIENCE IN PUBLIC ADMINISTRATION

The bachelor of science in public administration degree is awarded by the School of Social Sciences and Public Affairs to candidates who have completed satisfactorily 120 hours of course work as listed below and six hours of work in an approved social science coordination course.

Group 1—Basal Studies

54 Hours

The basal studies requirements for this degree and for the degree of bachelor of science in social science are identical.

Group 3—Concentrated Studies

30 Hours

Candidates for this degree must as a part of their concentrated studies complete Introduction to Public Administration (3) and 21 hours of other approved courses including at least 3 hours in each of the following fields: organization and management; personnel administration; budgetary administration; and public relations.

The department requires that students complete 12 hours of general background course work, including either American Government: State and Local, or American Government: Municipal and 6 hours of public administration coordination courses.

Group 4—Related Studies

12 Hours

A total of 12 hours of work in advanced political science courses must be completed to satisfy the related studies requirement. Courses must be selected from among those offered in at least three of the following fields: public law; governmental processes; political dynamics; and political theory or comparative government.

Group 5—Elective Studies

24 Hours

Twenty-four hours of work in any courses accepted for credit must be completed to meet the requirements of this group.

ASSOCIATE PROGRAMS

Both as a step toward the bachelor's degree and as a terminal program designed to meet a student's career needs, the University offers programs leading to the associate in arts, the associate in science, and the associate in administration. The minimum requirement is the completion of 63 credit hours with an average of not less than C. At least the last 30 hours must be completed in residence at The American University.

ASSOCIATE IN ARTS

Group 1—Basal Studies

19 Hours

Hours

English Composition	6
English Literature	6
Speech	3
Physical Education	4

Group 2—Distributed Studies

26 Hours

Humanities	6
Modern Foreign Language	12
Laboratory Science—Biology, Chemistry, Geology, Physics	8

Group 3—Concentrated Studies

18 Hours

Courses may be selected from any area that is acceptable as a field of concentration for candidates for the bachelor of arts degree.

ASSOCIATE IN SCIENCE

Group 1—Basal Studies

28 Hours

Hours

English Composition	6
Modern Foreign Language	12
Mathematics	6
Physical Education	4

Group 2—Distributed Studies

6 Hours

Humanities	3
Social Science	3

Group 3—Concentrated Studies

29 Hours

Courses may be selected from any science that is acceptable as a field of concentration for candidates for the bachelor of science degree.

**ASSOCIATE IN ADMINISTRATION
IN SOCIAL SCIENCES OR PUBLIC
ADMINISTRATION**

Group 1—Basal Studies

30 Hours

Hours

English Composition	6
Backgrounds of American Democracy	6
American Government or Principles of Economics [depending upon the area of specialization]	3
Accounting: Fact Control of Management or Fundamentals of Statistics	3

History, Humanities, Modern Foreign Language, Mathematics, or Natural Science (6 hours in one field).....	9
Social Science Electives.....	3

Group 3—Concentrated Studies

24 Hours

Courses may be selected in any area acceptable as a field of concentration for the bachelor of science in social science and bachelor of science in public administration degrees.

Group 5—Elective Studies

9 Hours

Any courses acceptable for academic credit may be elected to meet the Elective Studies requirement.

**ASSOCIATE IN ADMINISTRATION
IN BUSINESS ADMINISTRATION
OR ACCOUNTING**

Group 1—Basal Studies

39 Hours

	<i>Hours</i>
English Composition.....	6
History of American Business Leadership	6
Structure of the American Economy and Economics of the Firm and Industry or Principles of Economics.....	6
Accounting: Fact Control of Management	6
Fundamentals of Statistics.....	3
Political Organization of Society or American Government: National	3
General Psychology.....	3
Literature	3
Natural Science, Mathematics, Sociology or Humanities.....	3

Group 3—Concentrated Studies

24 Hours

Courses may be selected in any area acceptable as a field of concentration for the bachelor of science in business administration degree.

Group 5—Elective Studies

None

**ASSOCIATE IN ADMINISTRATION,
PRE-LEGAL**

This program was established for students who wish to complete a two-year program of college study as preparation for the study of law. The student must complete 48 credit hours of Basal Studies and 15 credit hours of Concentrated Studies as approved by his dean. A student in this program must complete an additional year of college work in order to secure admission to a law school that is approved by the American Bar Association or is a member of the Association of American Law Schools.

**COMBINED DEGREE PROGRAM
FOR LAW STUDENTS**

Qualified undergraduate students of The American University may enroll in a program that enables them to complete requirements for the bachelor of arts or science degree and the bachelor of laws degree after six years of fulltime study or the equivalent in parttime study.

A student in the combined degree program may enter the Washington College of Law after completing 96 credit hours of the basic and concentration requirements for a degree

in the College of Arts and Sciences or School of Social Sciences and Public Affairs. He receives the bachelor's degree upon satisfactory completion of the first year of fulltime law study or the equivalent, the law courses

being accepted as electives to complete his degree requirements. He receives the bachelor of laws degree upon satisfactory completion of two additional years of fulltime law study or the equivalent in parttime study.

LAW DEGREE

Candidates for the degree of bachelor of laws are required (1) to complete 80 credit hours with a cumulative average of 1.0, the last 20 hours of which must be completed in this College; (2) to take 6 residence sessions of study, at least the last $1\frac{1}{2}$ of which must be taken in this College; and (3) to meet the foregoing requirements within a period of not less than 2 nor more than 6 calendar years of study.

A residence session is defined as one during which a student carries 12 or more credit hours. A student who carries 9, 10, or 11 credit hours shall be entitled to residence credit of $\frac{3}{4}$ of a session; a student who carries 6, 7, or 8 credit hours shall be entitled to residence credit of $\frac{1}{2}$ of a session; a student who carries 3, 4, or 5 hours shall be entitled to residence credit of $\frac{1}{4}$ of a session. The requirements for the degree are normally met by attendance either for 6 regular sessions in the day or 8 regular sessions in the evening.

A student once enrolled in this College will be given no credit toward the degree for work thereafter completed in any other institution unless he has secured the written consent of the dean before the work is undertaken.

Orientation lectures for entering stu-

dents are held at the beginning of each session in advance of the beginning of classes. The orientation program is planned to bridge the gap between undergraduate and professional study by introducing the student to the historical background of the law, to the techniques of the case system of law study, to basic procedural and jurisprudential concepts, and to the importance of the library as a workshop for the lawyer. All entering students are required to attend the orientation lectures.

The Washington College of Law offers a ten-week summer session. The courses, which are chiefly in the elective curriculum, are coordinated with the fall and spring programs of studies so that students enrolled in the evening program may complete their course of study in six regular and three summer sessions, thus shortening the normal four-year course by one year. Students enrolled in the day program may accelerate their course by one session by attending the summer session. The summer session is open not only to students of The American University but also to students in good standing in other accredited law schools.

GRADUATE DEGREES

GRADUATE PROGRAMS

The University offers graduate programs leading to the degree of doctor of philosophy, master of arts, and master of business administration.

The doctor of philosophy degree may be taken in the following fields:

- Economics
- Economic History
- History
- International Relations and Organization
- Mathematics
- Political Science
- Public Administration
- Sociology and Public Welfare
- Statistics

The master of arts degree may be taken in the following fields:

- Communication
- Economics
- Economic History
- Education
- Guidance and Counseling
- History
- International Relations and Organization
- Mathematics
- Political Science
- Psychology
- Public Administration
- Sociology and Public Welfare
- Statistics

DOCTOR OF PHILOSOPHY

A candidate to qualify for the degree of doctor of philosophy must (1) complete with a better than B average at least seventy-two hours of graduate study, not less than thirty hours of which must have been taken

in residence at The American University and not less than sixty hours of which must have been completed in the fields selected for comprehensive examinations, (2) pass comprehensive examinations in five fields of study recommended by the chairman of the department in which he is taking his principal degree work, achieving the grade of distinction in at least one field, (3) demonstrate proficiency in two research tools as presented at the time of advancement to candidacy, (4) present a dissertation demonstrating distinctive competence in research and the ability to present new knowledge effectively, and (5) pass an oral examination on the dissertation and on any portions of his fields of study which are related to his inquiry. No academic credit is allowed for the dissertation.

MASTER OF ARTS AND MASTER OF BUSINESS ADMINISTRATION

A candidate for the degree of master of arts or master of business administration must (1) complete with a B average at least thirty hours of graduate study of which twenty-four hours must have been completed in residence at The American University, (2) pass comprehensive examinations in three fields of study approved by the chairman of the department in which he is taking his principal degree work, (3) present a thesis demonstrating competence in the analysis of research data and expository reporting, and (4) pass an oral examination on the thesis and on any portions of his fields of study related to his inquiry.

MASTER'S DEGREE FOR ART STUDENTS

A program leading to the degree of master of arts is offered to students who have demonstrated unusual creative artistry and academic background and wish to study the interaction of art and society. A candidate must present evidence of his creative work to the chairman of the Department of Art and secure his permission to enter on the program. He must also secure the approval of the graduate dean. Programs leading to this degree are planned in consultation with the chairman of the Department of Art and the chairman of the department of the School of Social Sciences and Public Affairs in which he plans to enroll for courses. A candidate must (1) complete with a B average at least thirty hours of course work of which twenty-four hours must have been completed in residence at The American University and which must include twelve credit hours of work in the social sciences, three credit hours of work in art lectures, three credit hours of work in a seminar, *The Interaction of Art and Society*, six credit hours of graduate art laboratory work, and six credit hours of thesis seminar in the appropriate department, (2) pass comprehensive examinations in three fields of study approved by the chairman of the department in which he is taking his principal degree work, (3) present a thesis demonstrating competence in the analysis of research data and expository reporting, and (4) pass an oral examination on the thesis and on any portions of his fields of study which are related to his inquiry.

ADVANCEMENT TO CANDIDACY

Advancement to candidacy for the degree of doctor of philosophy may be granted by the graduate council when a student in full standing has completed thirty hours of graduate work with an average higher than B, twelve of which must have been completed in residence.

Advancement to candidacy for the degree of master of arts or master of business administration may be granted by the graduate dean when a student admitted to full standing has completed twelve hours of graduate work in residence with an average of not less than B.

Advancement to candidacy for the degree of doctor of philosophy, master of arts, or master of business administration continues valid for a period of seven years from the date of advancement for the doctor's degree and five years for the master's degree, provided the student maintains a cumulative average of B. Candidacy forfeited by the expiration of time or academic performance below the required level may be renewed by action of the graduate council.

TOOLS OF RESEARCH

A candidate for the degree of doctor of philosophy must demonstrate proficiency in two tools of research.

Research tools may be foreign languages or quantitative disciplines. French, German, statistics, or accounting with the approval of the department chairman may be selected as research tools. Approval of other languages or quantitative tools requires action of the graduate council upon recommendation of the department

chairman. Requirements concerning tools of research must be satisfied not later than the date of the approval of the dissertation or thesis topic.

COMPREHENSIVE EXAMINATIONS

A student under normal circumstances is eligible to take comprehensive examinations when as a candidate for the degree of doctor of philosophy he has an academic average of better than B or as a candidate for the master's degree he has an average of at least B and, with the exception of thesis credits, has completed the hours of academic work necessary to qualify for the degree. The student applies to take the examinations on forms supplied by the graduate dean on or before the date indicated in the University calendar.

A candidate who fails to pass the comprehensive examinations may retake them only once and must retake them in their entirety except that a candidate for the degree of doctor of philosophy who fails only because he does not obtain a grade of distinction may by action of the graduate council be permitted to retake examinations in less than five fields, and that if a candidate for the degree of doctor of philosophy achieves distinction in one or more fields but fails in one of the remaining fields, the graduate council may permit him to retake comprehensive examinations in less than five fields.

DISSERTATIONS AND THESES

A candidate for the degree of doctor of philosophy must present a dissertation embodying substantial re-

search, scholarly analysis, and original inquiry into a clearly defined and well-planned field. A candidate for the degree of master of arts or master of business administration must present an acceptable thesis demonstrating capacity for exploratory and analytical inquiry and expository statement.

The dissertation or thesis manuscript must be prepared in accordance with regulations issued by the graduate council. Four clear typewritten copies on paper 8½" x 11", one copy of which must be on good bond paper, must be deposited with the registrar for transmission to the library after the final oral examination has been passed and in all cases not later than two weeks in advance of the date when the degree is expected to be received. Two copies of a one-thousand-word summary stating the problem and findings must be filed at the same time in a form suitable for publication.

ORAL EXAMINATION

Oral examinations for doctor's and master's degrees are scheduled by the department chairman and conducted by the dissertation or thesis committees. They must be taken at least one month in advance of the date on which the graduate degree is to be conferred.

CASE STUDY RESEARCH IN PUBLIC ADMINISTRATION

Candidates for an advanced degree in public administration are required to prepare a research project in which the principles of public administration are applied to a specific organizational unit. The case study research carries three hours of graduate credit.

ACADEMIC INFORMATION

The University divides the academic year into fall, spring, and summer sessions. A student may enroll in any session for fulltime or parttime study in the day or evening. All students are expected to familiarize themselves with the current regulations of the University as they appear in this catalog and in other published announcements. These regulations are subject to change at any time.

CLASSIFICATION OF STUDENTS

A fulltime student carries not less than 12 nor more than 18 credit hours a session. A parttime student carries less than 12 credit hours a session. A fully employed parttime student making satisfactory progress toward graduation may carry not more than 10 credit hours in the fall or spring sessions. A student employed more than 20 hours a week must register as a parttime student.

PROGRAM OF STUDIES

The University expects a degree student at the time of his first registration to project his academic plan into a program of studies to achieve his academic objective. The student submits his proposed course of study for each session to his advisor for approval in advance of formal registration.

A student may not change the program of studies for which he is registered in any session except by permission of the dean upon recommendation of his advisor. He may not add a new course to his schedule after the end of the second week of the course. He may officially withdraw from one or more courses for which he is registered during the first four weeks of full session courses or not later than the end of the second week of half session courses. In special

cases the dean may approve requests for withdrawal beyond these limits.

A student working toward a degree is responsible for planning his program to meet the requirements for receiving that degree. He should consult the University regulations, the academic calendar in the current session announcement, and his departmental chairman or authorized department counselor at least once a session. Failure to do so will endanger his receiving the desired degree.

REGISTRATION

A student may not register for any course after the second week of any session.

Students who wish to change or to withdraw from classes must fill out the change in registration form available in the office of the registrar and must file the form with all required signatures in the office of the bursar within forty-eight hours after initiating the change. Regular withdrawals from class are made in writing at the office of the registrar on a green form provided for the purpose. *Discontinuance of attendance or notice to the instructor does not constitute withdrawal.* Students who discontinue attendance without giving notice on the green withdrawal form will be held responsible for payment in full for the courses for which they have registered.

ABSENCES

Regular attendance at class meetings and the performance of academic duties is the first obligation of the student. Undergraduate students and all veteran students absent from more than one quarter of the scheduled meetings of the course without satisfactory excuses may not take the final examination or receive credit. A veteran student absent from class sessions for two consecutive weeks for reasons not satisfactorily explained to the dean is dropped from the rolls of the class and reported to the Veterans Administration for termination of his entitlement.

GRADING SYSTEM

Grades are defined as follows at the College of Arts and Sciences and the School of Social Sciences and Public Affairs:

- A—excellent
- B—good
- C—fair
- D—poor
- F—failure
- I—incomplete
- W—official withdrawal
- X—unofficial withdrawal

Grades at the Washington College of Law are defined as follows:

- A—exceptional performance and the demonstration of intellectual initiative
- B—competent performance
- C—acceptable performance
- D—marginal, but passing, performance
- F—failure

An instructor in reporting an incom-

plete to the registrar must at the same time submit a statement specifying what performance on the part of the student will remove the incomplete. The student must remove the incomplete by performance of the remaining requirements in a fall session course before April 1, in a spring session course before October 1, and in a summer session course before November 1.

An X as a symbol of unofficial withdrawal on a record indicates that the University is unable to evaluate the work of a student or to explain his failure to complete the course.

The registrar immediately after the close of each session submits to students unofficial grade reports describing performance in courses elected.

Transcripts showing courses completed and grades earned will be issued by the registrar on the request of any student whose financial obligations are paid in full and who is in good standing. There will be a charge for all but the first transcript or certificate issued by the registrar.

Quality Point Schedule

A quality point is a numerical value assigned to each credit hour earned as follows:

A	3
B	2
C	1
D	0
F	—1

(in the Washington College of Law, 0)

Achievement Index

The achievement index describes the quality of a student's work in all

academic courses completed. The registrar computes the index by this formula:

Sum of quality points

Number of completed academic hours

On the basis of this index, undergraduate students are classified for honors according to this schedule:

<i>Honor</i>	<i>Index</i>
Highest distinction . .	3.00
High Distinction . . .	2.75 - 2.99
Distinction	2.50 - 2.74

To be eligible for consideration for graduation honors, an undergraduate student must complete at least 60 hours of work in the University. Courses taken during the session preceding commencement are not included in the computation of honors.

A student to remain in good standing and to be eligible for graduation must achieve a cumulative index of 1.00. No course grade completed in another institution is counted in the computation of the cumulative achievement index.

ACADEMIC REGULATIONS FOR UNDERGRADUATE STUDENTS

An undergraduate student who in the work of any session fails to achieve an index of 1.00 is placed on probation. He remains on probation until he achieves a cumulative index of 1.00 or better or is dismissed.

The University dismisses an undergraduate student for unsatisfactory scholarship under the following circumstances:

1. If the student has been placed on probation and fails to achieve an index of 1.00 in the work of the fol-

lowing session unless his cumulative achievement index is 1.00 or higher.

2. If the student achieves in other than a first session of attendance an index of less than .50 in the work of any session unless his cumulative achievement index is 1.00 or higher.

3. If the student achieves an index below .00, a minus index, in the work of any session.

4. If the student fails to achieve a cumulative achievement index of 1.00 or higher at the end of the session when he would normally advance to upperclass standing.

5. If the student advanced to upperclass standing fails except in the first session of residence to achieve a cumulative achievement index of 1.00 or higher at the end of any session.

The University classifies undergraduate students as underclassmen and upperclassmen. An underclassman is eligible for advancement to upperclass standing when he has completed 63 credit hours of work. Student organizations compute class membership according to this schedule:

<i>Class</i>	<i>Hours Completed</i>
Freshman	0— 29
Sophomore	30— 62
Junior	63— 89
Senior	90—126

An underclassman who will by commencement have completed 63 credit hours files with the registrar a petition for advancement to upperclass standing not later than May 1. The declaration of the major area of concentration in the petition for advancement to upperclass standing may be amended with the approval of the academic advisor and the dean if the

student's interest changes or his life objectives are revised.

ACADEMIC REGULATIONS FOR LAW STUDENTS

A student in the Washington College of Law will be automatically dropped from the rolls under the following circumstances:

1. Upon failure to achieve a quality point index of 1.0 by the end of the academic year (June) during which he first enrolled, provided, however, that in cases where a student has not been in attendance for two full sessions, the faculty, in its discretion, may defer until not later than the end of the following academic year (June) the determination of a student's eligibility to remain on the rolls.

2. Upon failure to achieve and maintain a cumulative quality point index of 1.0 at the end of each academic year (June) thereafter.

Notwithstanding the foregoing, the faculty upon the recommendation of the Dean may dismiss a student who in its opinion lacks the ability successfully to pursue the study of law.

A student who has been dropped or dismissed may within ten days after dismissal file with the Dean a written petition for reinstatement. The faculty upon recommendation of the Dean may reinstate such student upon such terms and conditions as they see fit if in their opinion circumstances warrant reinstatement.

ACADEMIC REGULATIONS FOR GRADUATE STUDENTS

Candidates for the doctor of philosophy degree must maintain an average of better than B and candidates for the master of arts and master of business administration degree must maintain an average of B. C is the lowest grade for which a graduate student may receive credit.

APPLICATION FOR GRADUATION

A student not later than November 1 must file with the registrar a petition of candidacy for graduation on forms provided by the registrar. The student must specify his name as he wishes it inscribed on his diploma and the degree for which he is a candidate.

FINANCIAL INFORMATION

Tuition, fees and other charges described in this catalog were effective in the fall session beginning October 2, 1952 and are subject to change at any time.

TUITION

Tuition for Fulltime Students

Tuition charges for fulltime students during the fall and spring sessions are as follows:

Undergraduate	\$250 a session
Law	\$190 a session
Graduate	\$ 13 a credit hour

The fulltime charge includes tuition for not more than 18 hours of course work a session for undergraduate students and for not more than 15 hours of course work a session for law students. A student permitted to register for more than these credit hours pays for each extra hour at the part-time tuition rate for the division concerned.

Tuition for Parttime and Summer Session Students

Tuition charges for parttime students during the fall and spring sessions and for all students during summer sessions are as follows:

Undergraduate	\$13 a credit hour
Law	\$14 a credit hour
Graduate	\$13 a credit hour

Tuition for Half Session Courses

The tuition charges for an undergraduate student enrolled in half session courses offered during the fall and spring is \$125 for the half session in which he is enrolled for a minimum of six credit hours of course work and at the rate of \$13 a credit hour during

half sessions in which his load is below the minimum, provided that during the two half sessions the sum of the credits earned does not total 12 hours or more. When credits earned in two half sessions total 12 or more the tuition charge is \$250 for the two half sessions.

Tuition for Work-Study Program Students

Women students enrolled in the University's Work-study program pay an annual fee of \$825 a year. This charge includes tuition for 21 hours of academic work, a shared room in a University residence hall, and breakfasts and dinners Monday through Friday during the fall and spring sessions when classes are meeting. It does not include meals on Saturdays, Sundays, and holidays, vacation periods, or summer sessions. Bills are payable semi-monthly in advance.

Tuition for Psychiatric Nursing Program Students

Students enrolled in the psychiatric nursing program offered in cooperation with St. Elizabeth's Hospital pay an annual fee of \$360 a year. This charge includes tuition for the 36 credit hours of work required for the completion of the program. A student enrolled in a course that is not an approved part of the program must pay additional tuition at the regular part-time tuition rate. Bills are payable semi-monthly in advance.

Graduate Study Fee

A graduate student who has completed course work and thesis seminar requirements for an advanced degree may continue on the rolls of the University as a fulltime or parttime student on payment of a graduate study fee of \$15 a session. The fee entitles the student to the use of the University library and reference services and to consultation with his advisor and other members of the faculty. The graduate study fee is not refundable.

Tuition for Institutes and Other Special Programs

Certain institutes and special programs offered by the University on a credit or non-credit basis vary from the pattern of regular tuition charges. Charges will be made as indicated in the published description of the individual institute or program.

Definition of a Fulltime Student

For financial as well as for academic purposes a fulltime student is defined as one enrolled for not less than 12 credit hours of course work during the fall and spring sessions or not less than five credit hours of course work during the summer session. A student enrolled by payment of the graduate study fee will be listed as a fulltime student if the graduate dean certifies he is devoting the equivalent of fulltime course study to research required for the completion of his degree work.

Payment of Tuition

All tuition charges are payable in advance at the time of registration. Parttime undergraduate and graduate students enrolled for four or fewer

credit hours of work and law students enrolled for five or fewer credit hours of work must pay all obligations in full before they will be admitted to classes. Undergraduate and graduate students who register for five or more credit hours of work and law students who register for six or more credit hours of work may take advantage of a deferred payment plan for tuition charges provided by the University.

Deferred Tuition Payments

A student who wishes to make use of the deferred payment privilege executes a promissory note, pays a deferred payment charge of \$1 (for accounts up to \$100) or \$3 (for accounts of \$100 or more), and makes tuition payments in accordance with the following schedule:

- On registration—40% of tuition and all fees
- By end of the 4th week of classes—40% of tuition
- By end of the 7th week of classes—20% of tuition

If payments are not made according to the terms of agreement the student will be suspended one week after the due date of any payment he has failed to make. Reinstatement will be permitted only after the payment of all outstanding obligations and a reinstatement fee of \$5. *Notices will not be sent to students taking advantage of the deferred payment plan to remind them of the date on which their payments are due.*

Refund Policy

A student permitted to withdraw from classes during the fall and spring sessions is entitled to a refund of

tuition charges in accordance with the following schedule:

Withdrawal before the opening date of the session—*All tuition except a registration fee of \$5*

Withdrawal before the end of the 4th week—*60% of tuition*

Withdrawal during the 5th and 6th weeks—*40% of tuition*

Withdrawal during the 7th week—*20% of tuition*

Withdrawal after the 7th week—*No refund*

Refunds will be made only after the execution of the forms provided for the purpose by the registrar. Refunds will be calculated as of the date the withdrawal becomes effective as indicated by the registrar on signing.

A student who withdraws officially from half session courses offered during the fall and spring receives refunds according to the following schedule:

Withdrawal before the opening date of the session—*All tuition except a registration fee of \$5*

Withdrawal during the 1st week—*60% of tuition*

Withdrawal during the 2nd week—*20% of tuition*

Withdrawal after the 2nd week—*No refund*

A student who withdraws from summer session courses is entitled to a refund of all tuition except a registration fee of \$5 if withdrawal is effective before the opening date of the session. No refund of tuition will be made to summer session students who withdraw after the opening date of the session.

GENERAL FEES

General Fees Applicable to All Students

The following fees are required of all students. They are not refundable.

Late registration (effective on date of the opening of classes in any session), \$3
Deferred payment charge, \$1 (accounts up to \$100) or \$3 (accounts of \$100 or more)

Change in registration not required by the University, excluding withdrawals, \$1 each transaction

Reinstatement fee, \$5 (plus payment of all obligations)

Health fee (included in fulltime undergraduate tuition charge for fall and spring sessions, required of all fulltime undergraduates and of all other students in residence in University facilities), \$10 each fall and spring session, \$5 each summer session

Student activity fee (included in fulltime undergraduate tuition charge for fall and spring sessions only, required of fulltime undergraduates in the summer session, optional for all others during all sessions), \$7.50 each fall and spring session, \$5 each summer session

Aptitude, achievement, and other tests (except when required by the University and taken at a time designated by the University Examiner), \$10 each administration of test

Special course and validating examination (when not required by the University), \$5 each credit hour

Admission tests, \$2 each

Transcripts or certificates of record under seal of the University, \$1 each (after first)

Certifications of records, not transcripts, 25 cents each (after first)

Fees Applicable to Fulltime Undergraduate Students

Application fee (once only, on submission of application—not refundable and not credited toward tuition), \$5

Fees Applicable to All Law Students

Application fee (once only, on submission of application—not refundable and not credited toward tuition), \$5

General fee, each session, \$5

Fees Applicable to Graduate Students Enrolled in Advance Degree Programs

- Comprehensive examinations
 - For Ph.D. degree, each time, \$20
 - For M.A. degree, each time, \$10
- Supervision of
 - Ph.D. dissertation, \$78
 - M.A. thesis, \$39

Graduate students must also plan on meeting expenses involved in the typing and binding of their dissertations or theses. Charges for typing will vary in accordance with the size of the manuscript and the arrangements made by the individual student for its typing. Costs for binding, which must be paid before a degree can be awarded, will also vary in accordance with the size of the dissertation or thesis. The University Librarian will announce each spring the charges for binding then in effect.

Graduation Fees Applicable to All Students

A graduation fee must be paid by each candidate for a degree prior to the commencement at which he will receive the degree in accordance with the following schedule:

- All undergraduate students. . . \$10
- All law students. \$20
- All graduate students. \$25

In addition to these graduation fees each candidate for a degree must provide himself with a cap and gown and (in the case of graduate students) the appropriate hood. The registrar will make arrangements for the rental of these accessories, the cost of which must be paid by the student. A schedule of current rental charges will be

issued by the registrar prior to each commencement.

COURSE FEES

Nature of Course Fees

Special fees are charged for certain courses involving the use of laboratory, studio, or other special equipment or facilities. The amount of the fee is indicated in the published description of the course to which it applies. Course fees entitle a student only to normal use of equipment or facilities. A student responsible for abnormal breakage or damage in any course will be charged for losses incurred, on recommendation of the department chairman approved by the dean or director, and these charges must be paid to the bursar before the student can be admitted to his final examination. The paragraphs that follow describe only the special course fees in effect in areas or departments in which most of the offerings are subject to fees. For a statement of fees charged in other areas or departments see the published description of individual courses.

Art Courses

A fee of \$5 for each credit hour is collected from all students enrolled in studio courses.

Language Courses

A fee of \$5 a course is collected from parttime students only in each language course that involves use of language laboratory equipment.

Music Courses

Special fees are charged all students enrolled in music courses that involve

individual lessons and practice, in accordance with the following schedule:

For fulltime undergraduate students whose field of concentration is music, \$50 a session for two credit hours of lessons, additional lessons at the parttime rate

For fulltime students whose field of concentration is not music and for all parttime students, \$45 a session for each credit hour of lessons

Practice room fee, \$5 a session, required only of students who make use of University practice room facilities

Science Courses

A fee of \$5 a session for each course of four credit hours or less is assessed from parttime students only enrolled in laboratory courses in biology, chemistry, geology, and physics. All students in these courses will be charged for breakage or damage of equipment as it occurs.

Other Course Fees

The University may change course fees as described in its published materials, or introduce fees in any course, effective with the beginning of any session. All such fees must be paid on registration by all students to whom they are applicable.

Course Fees Not Refundable

Special course fees will not be refunded to students who withdraw from classes after the opening date of any session in which they have registered.

RESIDENCE CHARGES

Residence Facilities

Fulltime undergraduate students

not residing with parents or relatives are required to live in residence halls located on the campus of the College of Arts and Sciences. Fulltime graduate and law students may reside in University dormitory rooms or apartments if space is available.

New students upon admission should send applications for dormitory rooms to the director of residence, Mary Graydon Hall, The American University, Washington 16, D. C. Applications must be accompanied by a reservation fee of \$25 to be applied to residence fees. The reservation fee will be refunded if the application is denied or if the reservation is cancelled within 6 weeks before the opening date of the session to which it applies. The reservation fee will not be returned under any other circumstances nor will it be applied to residence fees in any other session.

Residence Halls

During the fall and spring sessions charges for dormitory rooms for each session are:

<i>Hall</i>	<i>Single</i>	<i>Double</i>
Mary Graydon Hall (women)	\$150	\$125
Hamilton House (men)	125	115
Clark House (men) .	95	80
McCabe House (men)	..	80

Rates in effect during the summer session are published in the summer session course announcement.

Apartments

A limited number of apartments are available for married students. Rates and other information may be ob-

tained from the apartment manager, Mary Graydon Hall, The American University, Washington 16, D. C.

Restrictions on Occupancy

A student may not continue occupancy of a dormitory room in any session in which he is not registered as a fulltime student. All students except those receiving degrees must vacate their rooms within 24 hours after their last examination preceding commencement. Graduating seniors in residence may continue to occupy their rooms until noon of the day following commencement. During the Thanksgiving, Christmas, mid-year, Easter, and other vacation periods the residence halls are officially closed. *Students may not reside on the campus during these periods without the permission of the dean of student affairs and payment of a special fee of \$2 a day.*

Students in residence in dormitories or apartments must observe all University rules and regulations and will be held responsible for any damage done to rooms or apartments during their occupancy. A student who fails to comply with University regulations may be required by the dean of student affairs to relinquish his room or apartment at any time without notice.

DINING FACILITIES

The University dining hall is located in Mary Graydon Hall on the campus. Resident students of the College of Arts and Sciences who live in a University dormitory must purchase a meal ticket providing three meals a day, Monday through Friday, during the fall and spring sessions. Resident students of the School of Social Sciences and Public Affairs must pur-

chase a meal ticket providing either three meals or two meals—breakfast and dinner—a day. Meals on week ends and during summer sessions are purchased individually.

A student forced to be absent from meals included in his meal ticket because of the requirements of his class schedule may arrange with the manager of the dining room to receive during week ends or at other mutually agreeable times meals to compensate for those he has missed. Such arrangements must be made in advance.

The charge for the meal ticket providing three meals a day is \$150.00 a session, and for the meal ticket providing only two meals a day it is \$100.00 a session, payable in advance.

The University can assume no responsibility for students requiring special diets which differ from the standard bill of fare. The manager of the dining room may revoke the privilege of any student to use the dining room if such student fails to observe University regulations or to maintain standards of good taste.

PAYMENT OF CHARGES

Charges for dormitory rooms and meal tickets are due and payable in full for each session at the time of registration. As a convenience to students and their parents the University provides a deferred payment plan for room and board charges. A student who elects this plan pays his room and board account in three installments:

Upon Registration.....	33⅓%
By the end of the 4th week	33⅓%
By the end of the 8th week	33⅓%

A student permitted to withdraw during any session will receive no re-

fund of charges paid for either room or board, and he will be required to pay the full amount due for the session before his withdrawal will be permitted unless he is specifically exempted from this requirement.

Residents of dormitory rooms and apartments must at the time of registration make a deposit of \$1 for the key to the room or apartment assigned. The deposit will be refunded when the key is returned.

RESIDENCE CHARGES FOR WORK-STUDY STUDENTS

Residence and dining room charges for work-study students are covered by the inclusive fee of \$825 a year paid by those students. Work-study students are liable to the same rules and regulations as other resident students and must pay their bills in advance as described on page 33.

OBLIGATION FOR PAYMENT OF CHARGES

No student will be permitted to register from session to session or to receive credit for work completed or a degree unless all financial obligations to the University have been paid in full. Fees and charges listed in this catalog and in other announcements published by the University are subject to change at any time.

SCHOLARSHIPS AND FELLOWSHIPS

The University each year offers to selected fulltime students on the basis of competitive application fellowships and scholarships in accordance with conditions attached to endowment funds, gifts, grants, and appropriations by the board of trustees. In general the awards are made to students whose

records give promise of distinguished academic performance, citizenship, and useful living.

Awards unless otherwise specified are available to students *entering* either the professional, graduate, or undergraduate divisions. Application is made for a grant as described in this section to the provost, The American University, Washington 6, District of Columbia. The application must be accompanied by

1. An application for admission to the division in which the grant is offered
2. A certificate of medical history and examination
3. Transcripts of academic record as required under admission provisions
4. A personal letter stating the applicant's academic objectives
5. Names and addresses of three persons, not related to the applicant, who are familiar with his academic background and personal character
6. Other documents or evidence which support the applicant's statements.

Applications with all supporting admission documents must be presented to the University not later than February 1 for the academic year beginning with the fall session.

Application for renewal of awards, if the grant may be continued, must be made by letter to the provost not later than January 15.

STUDENT LOANS

The University provides loan funds to assist fulltime students in meeting

financial obligations and emergency needs. Loans are available within the limits of University funds to students who have proved themselves worthy. Loans are not made to any student during the first session of attendance. The sums which may be borrowed are defined by the terms of the trust which establishes the fund. Each borrower

signs a promissory note. This note must be endorsed by some financially responsible person. Applications for loans are made to the dean of student affairs on forms obtained from the dean of any division. The application must bear the endorsement of the dean of the division in which the student is enrolled.

LEGENDS OF PICTURE SEQUENCE

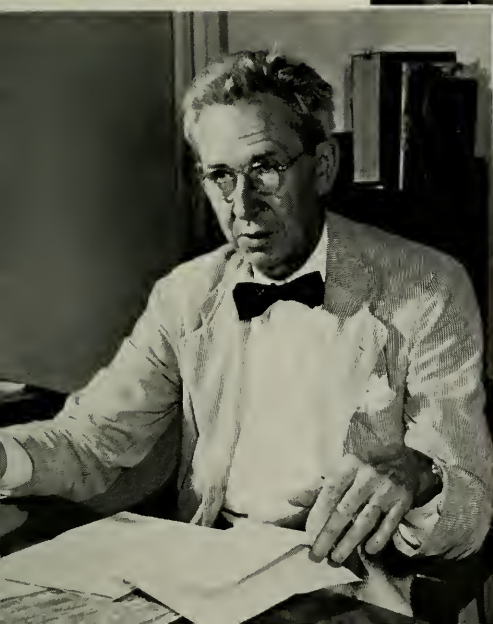
1. NORTHWEST HEIGHTS CAMPUS
2. HURST HALL
3. METROPOLITAN MEMORIAL
- 4, 5. THE UNIVERSITY AT WORK
6. FOOTBRIDGE WALK IN CAMPUS WOODS
7. SCHOOL OF SOCIAL SCIENCES AND PUBLIC AFFAIRS
8. LEONARD MEMORIAL POOL
- BOWLING IN THE STUDENT CENTER





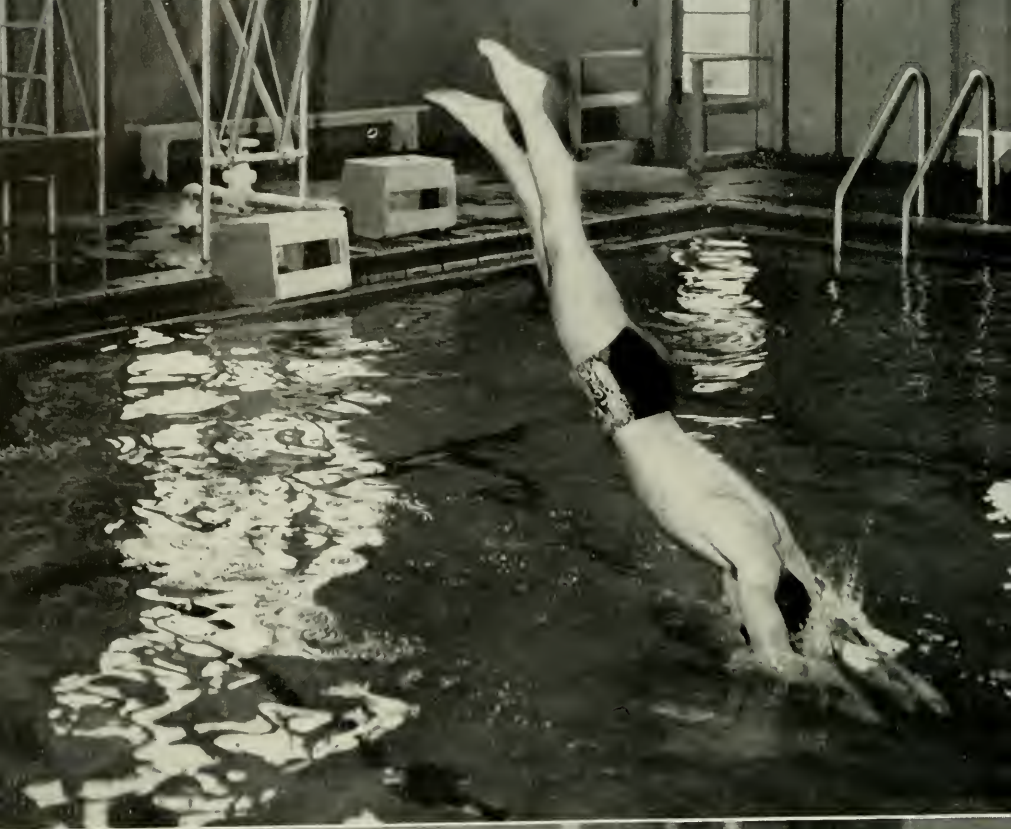












COURSES OF STUDY

Most courses are offered for three hours of academic credit. Arabic numbers in parentheses following descriptive course titles indicate credit hours which vary from this general pattern. A credit hour is earned by the satisfactory completion of one 50-minute class session, or two clock hours of laboratory work a week for 16 weeks or the equivalent. The following pages describe the course offerings of all divisions of the University. For the convenience of students they are listed by general subject classifications. These classifications do not necessarily correspond with the departments into which the curriculum for administrative purposes is organized.

DEPARTMENT NUMBERING SYSTEM

The University assigns to each course a number which identifies the level of difficulty and indicates the department or area within a department which is responsible for the administration of the course. In the schedule which follows, department names and numbers are indicated in bold-face type, areas within departments in italics.

NUMBER	DEPARTMENT
3.	Accounting
5.	Art
7.	Art History
9.	Biology
11. and 12.	Business Administration
15.	Chemistry
17.	Communication
19.	Economics
21.	Education
23.	English and Literature
25.	Geography
27.	Geology
29.	History
31.	Professional Institutes
33.	International Relations and Organization
35.	Journalism
37.	Modern Languages
39.	Law
41.	Mathematics
43.	Music
45.	Nursing Education
47.	Philosophy
49.	Physical Education and Health
51.	Physics
53. and 54.	Political Science and Public Administration
57.	Psychology
59.	Public Relations
61.	Religion
63.	Secretarial Techniques
65.	Sociology
67.	Speech and Theater

NUMBER DEPARTMENT

69.	Statistics
71.	Television and Radio

LEVEL NUMBERING SYSTEM

The level on which academic work is offered is described by a second series of three numbers as follows:

COURSES NUMBERED	LEVEL OF COURSE
001-099	non-credit courses
100-299	underclass courses
300-499	upperclass courses
500-599	graduate courses to which advanced undergraduate students may be admitted by permission
600-699	courses open only to graduate students
700-799	research courses and seminars open only to advanced graduate students

SECTION IDENTIFICATION

When the same course is offered in more than one section and in more than one division of the University, index letters indicate divisional as well as day and evening sections.

PROVISION FOR INTEGRATION AND INDIVIDUAL WORK

Within the general framework of the curriculum the University offers a pattern of general and special courses and programs to give orientation, integration, and opportunity for individual initiative. These are:

For Undergraduate Students

READING PROJECT 390—provides opportunity for independent reading and study for advanced undergraduate students. The project carries three hours of academic credit and must be completed in not more than two consecutive sessions. Under special circumstances it may be completed in one session.

RESEARCH PROJECT 490—provides opportunity for independent research leading to a research paper filed permanently in the University library. May be elected by students who have satisfactorily completed 60 hours of undergraduate work, 6 of which must have been completed in residence. Not more than 6 credit hours may be earned by completion of the project.

INTEGRATING SEMINAR 090—a non-credit course offered at the option of a department of instruction for the benefit of students concentrating in the department.

For Graduate Students

READING PROJECT 590—provides opportunity for independent reading and study for students who have completed 6 hours of graduate work.

RESEARCH PROJECT 690—provides opportunity for independent research leading to a research report filed permanently in the University library. May be elected by students who have completed 12 hours of graduate work in residence with at least a B average.

INTERNSHIPS—arrangement by which advanced students in various departments are

assigned for field experience to operating agencies.

IN-SERVICE PROJECTS—arrangement by which employed students may carry forward academic study or research on clearly defined projects within the agency of their employment. Requirements are the same as those for the research project.

SEMINARS—demonstration of ability to use systematic methodology in the statement, analysis, and solution of a problem in partial fulfillment of the requirements for advanced degrees.

THESIS SEMINARS—original investigation of a problem in the preparation of a thesis for an advanced degree. A candidate for an advanced degree ordinarily registers for 3 hours of thesis seminar for a master's degree and for 6 hours of thesis seminar for a doctor's degree.

No more than six hours may be counted toward the hour requirements for the master's degree for reading courses, individual research, in-service projects, or professional institutes, nor more than nine hours for any two or more of these types of work combined; for the doctorate the limits are nine and eighteen hours respectively.

CHANGES IN SCHEDULE

Revised schedules indicating the hour, location, and instructor for each course are published by the respective divisions of the University prior to the opening of each session. Students should consult these revised session announcements for session registration. *The University reserves the right to cancel or change at any time any scheduled course listed in this catalog and in other published announcements.*

ACCOUNTING

ALAN M. JOHNSON

Director of the Area in the

Department of Economics and Business Administration

ADJUNCT PROFESSORS: Hugh C. Bickford; Elmer C. Koch; Eugene C. Moyer.

ASSISTANT PROFESSORS: Arthur W. Carnduff; David S. Fields; Alan M. Johnson.

PROFESSORIAL LECTURERS: Alfred d'Alessandro; Robert W. King.

LECTURERS: Albert E. Arent; David Brooks; Elizabeth T. Evans; Edwin C. Fors;
Roy H. Halquist; Melvin E. Lewis; Aaron Rosloff; Charles W. Tucker.

BASIC COURSES

Accounting¹: Fact Control of Management 3.200

First half of first year accounting. Basic principles and procedures including theory of debit and credit, purpose and use of accounting and business records, special books of original entry, controlling accounts, voucher system, adjusting entries, closing the books, and preparation of financial statements through use of working papers. Accounting laboratory required. FALL. SPRING. SUMMER. Fors. Johnson. Moyer. Rosloff.

Accounting²: Fact Control of Management 3.201

Second half of first year principles course. Accounting for the individual proprietorship, partnership, and corporation with emphasis on the corporation. Introduction to accounting problems and procedures related to cash, receivables, fixed assets, and analysis of financial statements. Accounting laboratory required. *Prerequisite, Accounting¹: Fact Control of Management 3.200.* FALL. SPRING. SUMMER. Fors. Johnson.

Functional Accounting 3.300

First half of second year principles course, and last of the three introductory courses in accounting prerequisite for further study in any area of accounting or taxes. Analysis of usefulness and limitations of accounting. Emphasis on functional aspect and managerial viewpoint. Introduction to

the concept of cost accounting. Accounting laboratory required. *Prerequisite, Accounting¹: Fact Control of Management 3.201, or for graduate students Use of Accounting Methods 11.400.* FALL. SPRING. SUMMER. Johnson.

INTERMEDIATE COURSES

Theory of Accounts 3.310

Second half of second year principles course, laying foundation for auditing courses. Each balance sheet account such as cash and accounts receivable considered in turn for the accounting principles, theories, and conventions applicable to each account. Emphasis on different methods of inventory valuation and depreciation accounting. Preparation of statement of application of funds. Accounting laboratory required. *Prerequisite, Functional Accounting 3.300.* FALL. SPRING. SUMMER. Johnson. Lewis.

Analysis of Financial Statements 3.510

Techniques of analyzing operating statements and balance sheets and their application to actual enterprises of various types. Analysis of financial statements as a tool of management for determining operating efficiency and for financial planning. Usefulness for creditors, investors, and regulatory agencies. Application of significant ratios to operation of different classes of business. *Prerequisite, Functional Accounting 3.300.* SUMMER. Fors.

Accounting Laboratories**[no credit]****3.001**

Supervised accounting laboratory facilities provided to assist in applications of classroom knowledge to assigned practical problems and laboratory materials. Students registered for *Accounting¹: Fact Control of Management* 3.200, *Functional Accounting* 3.300, or *Theory of Accounts* 3.310 must attend laboratory meetings for a period of time equivalent to that of classroom lecture periods. FALL. SPRING. SUMMER. **Staff.**

COST ACCOUNTING**Cost Accounting****3.420**

First course in cost accounting. Purpose and use of cost accounting and its relation to business management with emphasis on control in manufacturing operations. Consideration of the main classes of cost accounting systems, detailed study of job order and process cost procedures through use of related laboratory materials, examination of the use and purpose of cost accounting forms. *Prerequisite, Functional Accounting* 3.300. FALL. SPRING. **D'Allesandro. Lewis.**

Advanced Cost Accounting**3.520**

Second course in cost accounting. Continuation of the study of accounting systems with special attention to standard and estimated costs supplemented by related laboratory materials and problems. Cost accounting procedures and problems applied to selling, administrative, and other expenses. Preparation and use of analytical cost summaries for business management. Consideration of uniform cost accounting system and manual. *Prerequisite, Cost Accounting* 3.420. SPRING. SUMMER. **D'Allesandro. Lewis.**

AUDITING**Internal Auditing for Control****3.430**

First course in auditing. Internal auditing as a control aid to management. Study of internal accounting procedures used in private business organization. Verification and analysis of financial and operating reports. Organization and administration of internal auditing department as an instrument of management. *Prerequisite, Func-*

tional Accounting 3.300. FALL. SPRING. SUMMER. **Koch. Moyer.**

Auditing: Professional Practice**3.530**

Second course in auditing. Auditing from the viewpoint of the professional public accountant including qualifications of the C.P.A. and the professional and ethical standards of public practice. Procedures and practices of the public accountant. Typical engagement developed by use of laboratory material followed by the auditor's report to his client. *Prerequisite, Theory of Accounts* 3.310 and *Internal Auditing for Control* 3.430. SPRING. **Koch.**

TAXES**Taxation¹****3.540**

Economics of taxation: principles; types of taxes, incidence of taxation; effects on the business firm and the community. Analysis of the American tax system with emphasis on federal income taxes pertaining to individuals, partnerships, and trusts. Class preparation of returns and forms. FALL. SPRING. **Carnduff. Moyer.**

Taxation²**3.541**

Federal corporation taxes: income and excess profits. Estate and inheritance taxes. Gift taxes. Social security and miscellaneous taxes, local, state, and federal. Class preparation of returns and forms. *Prerequisite, Taxation¹* 3.540 or equivalent experience. SPRING. **Arent. Bickford.**

Taxation³**3.542**

Federal tax procedure. Organization of the Bureau of Internal Revenue. Audit process. Revenue agent reports. How to protest agent's action. Claims for refunds. Practice before all Bureau offices. Fraud and other penalty cases. Tax Court procedures. Federal court practice. The statute of limitations. *Prerequisite, Taxation²* 3.541 or equivalent experience. FALL. **Bickford.**

BUDGETING**Business Budgetary Principles and Practices****3.550**

Budgetary accounting as managerial tool for planning, coordinating, analyzing, and

controlling business activity. Principles of budget preparation, forms of budgets for different aspects of business organization and for various purposes, use of the budget in practice, and budgetary reports to management. *Prerequisite, Advanced Cost Accounting 3.520.* SPRING. Fields.

SPECIALIZED ADVANCED COURSES

Applications of Accounting¹ 3.560

First half of third year principles course. Specialized accounting for partnership, liquidation, statement of affairs, corporate receivership, and statements of realization and liquidation. Extensive problem materials. *Prerequisite, Cost Accounting 3.420 and Internal Auditing for Control 3.430.* FALL. Brooks.

Applications of Accounting² 3.561

Second half of third year principles course. Emphasis on consolidated statements and problems of inter-company accounts preceded by consideration of home and branch office accounting. Specialized accounting for estates and trusts. *Prerequisite, Cost Accounting 3.420 and Internal Auditing for Control 3.430.* SPRING. Bailey.

Fund Accounting 3.562

Principles of fund accounting used by federal, state, and local governments and by certain institutions operating under appropriations from either civic or private sources. Account classification of revenue and appropriated expenditures, accounting technique relative to receipts from various forms of taxation, bond issues, grants and other sources, preparation and use of budgets in controlling expenditures, appropriations and funds, and preparation of reports. *Prerequisite, Functional Accounting 3.300.* FALL. Evans.

System Design and Installation 3.564

Systems and procedures for new and established firms. Purpose of the accounting system, designing the system and records, installation of the system, and supervision in its operation. Attention to the purpose, preparation, and use of the accounting manual. *Prerequisite, Cost Accounting 3.420, Internal Auditing for Control 3.340 and Theory of Accounts 3.310.* SPRING. Fields. Halquist.

C.P.A. Review 3.565

Intensive review of previous accounting courses for students preparing for C.P.A. examinations and for advanced students seeking an over-all view of accounting. Emphasis on broader aspects of accounting: accounting theory; the accounting approach; current problems. Coordination and tie-together of accounting principles. Readings in current literature stressed. FALL. King.

C.P.A. Problems 3.566

Review for C.P.A. examinations through solution of selected problems from past C.P.A. examinations. *Prerequisite, C.P.A. Review 3.565 or permission of instructor.* SPRING. King.

Controllership in Business 3.680

Functions of the controller in modern business. Emphasis on interpretation of accounting aspects of managerial problems and communication to management levels involved. Role as staff member of the management team and as manager of a service department; relations with other executives, governmental, professional and other outside agencies. *Prerequisite, advanced work in accounting and business administration.* SPRING. Tucker.

ART*

WILLIAM H. CALFEE
Chairman of the Department

ASSOCIATE PROFESSOR: William H. Calfee.
ASSISTANT PROFESSORS: Sarah Baker (on leave of absence during 1952-1953); Robert F. Gates.
INSTRUCTORS: Peter Blanc; Ben L. Summerford.
PROFESSORIAL LECTURER: Marjorie Booton.

CAREER COURSES**

PAINTING

Creative Painting [10] 5.120-121

First course of a four-year sequence open only to first-year students who plan to continue for eight sessions. Basic and simplified theories of color, composition, and design. Structural drawing from the figure, head, landscape, and still life as sources of expressive pattern. *Prerequisite, permission of the department chairman after conference with student.* FALL. SPRING. Baker. Blanc. Gates. Summerford.

Creative Painting [10] 5.220-221

Second course of the four-year sequence continuing work in *Creative Painting 5.120-121, completion of which is prerequisite to this course.* FALL. SPRING. Baker. Blanc. Gates. Summerford.

Creative Painting [10] 5.320-321

Advanced theory. Emphasis on creative motivation regardless of subject matter. Student encouraged to experiment through an understanding of contemporary points of view. *Prerequisite, Creative Painting 5.220-221.* FALL. SPRING. Baker. Blanc. Gates. Summerford.

Creative Painting [10] 5.420-421

Independent student work planned in conference with instructors. One thesis project

* A fee of \$5.00 a credit hour is assessed from all students registered in studio art courses. The fee is not refundable.

** Career courses may be elected only in two session units. Classes meet Monday through Friday in the morning 9:30 a.m. to 12:30 p.m. or in the afternoon 1:30 to 4:30 p.m.

required, the subject of which must be submitted to and approved by the departmental faculty nine months before the student expects to take the bachelor's degree. *Prerequisite, Creative Painting 5.320-321.* FALL. SPRING. Baker. Blanc. Gates. Summerford.

SCULPTURE

Creative Sculpture [10] 5.140-141

First course of a four-year sequence open only to first-year students who plan to continue for eight sessions. A study of the problems and principles of the materials and concepts of sculpture. Through sketching in clay, anatomical and other research, and the handling of a resistant material—stone, plaster, wood—student begins to understand how thought adapts itself to material. *Prerequisite, permission of the department chairman after conference with student.* FALL. SPRING. Calfee.

Creative Sculpture [10] 5.240-241

Continuation and elaboration of ideas and attitudes experienced during the first year of Creative Sculpture. *Prerequisite, Creative Sculpture 5.140-141.* FALL. SPRING. Calfee.

Creative Sculpture [10] 5.340-341

Student working increasingly on his own, develops his particular critical judgments and is encouraged to undertake problems which extend beyond his previous accomplishments. *Prerequisite, Creative Sculpture 5.240-241.* FALL. SPRING. Calfee.

Creative Sculpture [10] 5.440-441

Student chooses projects and works in con-

sultation with instructor. *Prerequisite, Creative Sculpture 5.340-341.* FALL. SPRING. Calfee.

GENERAL COURSES *

PAINTING

Oil Painting [1] 5.130

Class designed to acquaint the student with certain structural design and color patterns existing in all good painting. Model and pose changed each class period to afford opportunity for practice in variety of techniques encouraging originality and a fresh approach. *Open to any student by consent of the department faculty.* FALL. Baker. Summerford.

Oil Painting [1] 5.131

A continuation of Oil Painting 5.130. SPRING. Baker. Summerford.

Introduction to Painting [2 or 3] 5.230

Survey of the basic principles of painting. Structural drawing from still life, figure, and head. *Prerequisite, written permission of the instructor.* FALL. SUMMER. Baker. Blanc. Gates. Summerford.

Introduction to Painting [2 or 3] 5.231

Continuation of *Introduction to Painting 5.230* [3] or [2]. SPRING. SUMMER. Baker. Gates. Summerford.

Materials [1] 5.233

Preparation of various grounds for painting in oil and tempera. Media, underpaint-

* General courses for students desiring a program less intensive than that of the Career Courses meet three days a week in the morning, 9:30 a.m. to 12:30 p.m., in the afternoon, 1:30 to 4:30 p.m., or on two evenings a week, 8:00 to 10:00 p.m. unless otherwise indicated. Sections of painting and sculpture courses that meet in the morning or afternoon lead to three hours of academic credit. Sections scheduled in the evening lead to two hours of academic credit.

ing, glazing, emulsions for tempera. Selection and toning of frames. *Not open to first-year students.* FALL. Gates.

Intermediate Painting [2 or 3] 5.330

More advanced application of the problems undertaken in *Introduction to Painting 5.230 and 5.231.* Student follows his own preference in developing either a more abstract or non-objective approach or the more representational. *Prerequisite, Introduction to Painting 5.230 or 5.231.* FALL. SUMMER. Baker. Blanc. Gates. Summerford.

Intermediate Painting [2 or 3] 5.331

Continuation of *Intermediate Painting 5.330.* *Prerequisite, Intermediate Painting 5.330.* SPRING. SUMMER. Baker. Blanc. Gates. Summerford.

Landscape [1] 5.335

Basic principles of design, composition, and color adapted to the problems of landscape painting. All mediums. For second year students or those with previous art training. SPRING. Gates.

Advanced Painting [2 or 3] 5.430

Student works on problems of his own choice developed in his personal manner in conferences with the instructor. *Prerequisite, Intermediate Painting 5.331.* FALL. SUMMER. Baker. Blanc. Gates. Summerford.

Advanced Painting [2 or 3] 5.431

Continuation of *Advanced Painting 5.430.* *Prerequisite, Advanced Painting 5.430.* SPRING. SUMMER. Baker. Blanc. Gates. Summerford.

SCULPTURE**Introduction to Sculpture [2 or 3] 5.250**

Survey of the problems and principles of sculpture. Acquaintanceship with basic tools, techniques, and materials for plastic expression including modeling in clay and plaster, armature construction, and plaster casting. *Prerequisite, written permission of the instructor.* FALL. Calfee.

Introduction to Sculpture [2 or 3] 5.251

Continuation of *Introduction to Sculpture 5.250, completion of which is a prerequisite to the course.* SPRING. Calfee.

Intermediate Sculpture [2 or 3] 5.350

Further experience in the application of concepts and techniques. Experimentation with such materials as stone, wood, metal. *Prerequisite, Introduction to Sculpture 5.251.* FALL. Calfee.

Intermediate Sculpture [2 or 3] 5.351

Continuation of preceding course. *Prerequisite, Intermediate Sculpture 5.350.* SPRING. Calfee.

Advanced Sculpture [2 or 3] 5.450

Individual work towards a personal creative expression and understanding of three dimensional form. Periodic consultation with instructor. *Prerequisite, Intermediate Sculpture 5.351.* FALL. Calfee.

Advanced Sculpture [2 or 3] 5.451

Continuation of *Advanced Sculpture 5.450 which is a prerequisite to the course.* SPRING. Calfee.

DRAWING**Introduction to Drawing [1] 5.260**

Drawing from the human figure with emphasis placed upon learning to see, to think, and to state rapidly ideas of movement, expression, form, and structure. *Prerequisite, written permission of instructor.* Not offered in 1952-1953.

Introduction to Drawing [1] 5.261

Continuation of *Drawing 5.260. Prerequisite, Introduction to Drawing 5.260.* Not offered in 1952-1953.

Intermediate Drawing [1] 5.360

Continuation of the fundamentals of drawing. Emphasis on the growth of the student's personal vision. *Prerequisite, Introduction to Drawing 5.260.* Not offered in 1952-1953.

Intermediate Drawing [1] 5.361

Continuation of *Drawing 5.360. Prerequisite, Intermediate Drawing 5.360.* Not offered in 1952-1953.

Advanced Drawing [1] 5.460

Experiments in the creative and emotional quality of drawing. Development of a personal creative expression. *Prerequisite, Intermediate Drawing 5.361.* Not offered in 1952-1953.

Advanced Drawing [1] 5.461

Continuation of *Advanced Drawing 5.460. Prerequisite, Advanced Drawing 5.460.* SPRING. Not offered in 1952-1953.

Introduction to Drawing: The Nicolaides Approach [1] 5.265

First year's work in the Nicolaides exercises directed to increasing the student's visual powers. Concentrated attention to one aspect of vision at a time by means of special studies of motion, contour, and volume. By this means student learns his strengths and weaknesses while simultaneously increasing his general visual sensitivity. FALL. SUMMER. Blanc.

Introduction to Drawing: The Nicolaides Approach [1] 5.266

Continuation of *Introduction to Drawing 5.265. Prerequisite, Introduction to Drawing: The Nicolaides Approach 5.265.* SPRING. Blanc.

Intermediate Drawing: The Nicolaides Approach [1] 5.365

After the concentrated studies have been mastered individually in *Introduction to Drawing* 5.265 and 5.266, student pursues further exercises to bring about their union in a single drawing. *Prerequisite, Introduction to Drawing* 5.266. FALL. SUMMER. Blanc.

Intermediate Drawing: The Nicolaides Approach [1] 5.366

Prerequisite, Intermediate Drawing: The Nicolaides Approach 5.365. SPRING. Blanc.

Advanced Drawing: The Nicolaides Approach [1] 5.465

Having gone through concentrating, then synthesizing exercises the student works toward achieving individual and personal expression. *Prerequisite, Intermediate Drawing: The Nicolaides Approach* 5.366. FALL. Blanc.

Advanced Drawing: The Nicolaides Approach [1] 5.466

Prerequisite, Advanced Drawing: The Nicolaides Approach 5.465. SPRING. Blanc.

RESEARCH AND SPECIAL PROJECTS

*** Materials and Methods of Teaching Art in Junior High Schools 5.370**

A workshop course in the theory and actual practice of design and color as applied to stage, costume, and interior design. Instruction in lettering, poster, and display work. *Prerequisite, 12 credit hours of work in creative painting or permission of the instructor.* FALL. Booton.

*** Materials and Methods of Teaching Art in Junior High Schools 5.371**

A study of methods and materials applied to the various industrial and graphic arts such as modeling, book making, weaving,

** Materials and Methods of Teaching Art in Junior High Schools. 5.370 and 5.371 are designed to meet part of the requirements for the junior high school art teacher established by the District of Columbia Board of Education.*

puppetry, and block printing. Actual practice of the crafts will be engaged in by the students. *Prerequisite, 12 credit hours of work in creative painting or permission of instructor.* SPRING. Booton.

**** Art Lectures [3] 5.500**

Candidates required to attend approximately 30 lectures given during Washington art season at the National Gallery of Art, the Freer Gallery of Art, the Dumbarton Oaks Research Library, the Corcoran Gallery of Art, Phillips Gallery, and other art centers.

**** Graduate Art Laboratory Work [6] 5.692-693**

Student masters language by which he communicates his ideas. The painter's language is design and color, the only means by which he can give significance to his illustrative materials or interpret it to others. Each candidate required to paint two works showing his awareness of contemporary social problems. The student is expected to spend at least 15 hours a week in the graduate art laboratory.

**** Interaction of Art and Society 5.790**

An intensive seminar concerned with the interrelationships of art and society. Meetings to be arranged.

**** Thesis Research [6] 5.799**

The thesis, prepared according to the general regulations of the graduate division, must deal primarily with some aspect of creative art, old or new, and may be based on the work of individual artists, or of schools, or of trends in art; or it may deal with any of the technical or aesthetic problems which confront the painter. Approach may be historical, analytical, or synthetic. Social or scientific background of the subject must be adequately investigated and lucidly considered in the text.

**** Courses offered as required for candidates for the master of arts degree for graduate art students who wish to study the interaction of art and society. Courses are planned and supervised jointly by the department of art and the dean of the graduate division. See page 27.**

ART HISTORY

ANDREW S. KECK

Director of the Area in the Department of Art

ASSOCIATE PROFESSOR: Andrew S. Keck.

*** Survey of Art: Ancient and Medieval 7.200**

Illustrated historical introduction to the architecture, sculpture, and painting of the ancient Mediterranean world and of medieval Europe. Art presented as an expression and record of man's major beliefs and ideas. FALL. Keck.

*** Survey of Art: Renaissance and Modern 7.201**

Architecture, sculpture, and painting of Europe and of the United States viewed against the background of social and scientific developments since the Fifteenth Century. SPRING. Keck.

Analysis of Art Forms¹ 7.210

An analysis of outstanding works of architecture and sculpture as three-dimensional forms in space and in light. Investigation of physical problems of the artist by simple exercises calling for no previous training and no particular aptitude on the part of the student. 2 hours of lecture and 2 hours of laboratory or field work each week. FALL.

Analysis of Art Forms² 7.211

Analysis of the means of expression and composition in painting and in low-relief sculpture through classroom presentation and laboratory investigation. Objective of laboratory work is not as in studio courses to train artists, but rather to give the student a direct understanding of the practical problems of creating in two-dimensional media. 2 hours of lecture and 2 hours of laboratory or gallery work each week. SPRING.

¹ For students concentrating in the History of Art, *Survey of Art: Ancient and Medieval 7.200* and *Survey of Art: Renaissance and Modern 7.201* are prerequisite to all subsequent courses.

Ancient Art 7.300

Ancient Mediterranean civilizations studied through the language of the visual arts: architecture, sculpture, and painting. Emphasis on the cultural achievements of classical Greece. 1952 FALL AND ALTERNATE YEARS. Keck.

Medieval Art 7.301

Clarification of the Christian view of experience in Western Europe and in the Byzantine Empire through the visual record of architecture and attendant arts. 1953 SPRING AND ALTERNATE YEARS. Keck.

Renaissance Architecture and Sculpture 7.400

An interpretation of the influence of humanism and individualism through an analysis of European art between the years 1400 and 1700. 1953 FALL. Keck.

Modern Architecture and Sculpture 7.401

An inquiry into the modern realistic attitude toward life based on a critical examination of art in Europe and the United States. 1954 SPRING AND ALTERNATE YEARS.

Renaissance Painting 7.500

Study of the major works of Italian Renaissance and Baroque painters and of El Greco, Poussin, Rembrandt, Rubens, and Velasquez with due attention to original works in the National Gallery of Art. FALL.

Modern Painting 7.501

Examination of the aims and accomplishments of painters in Europe from 1700. Attention to original works in Washington galleries. SPRING.

Art in the United States: To 1870
7.504

Survey of the architecture, sculpture and painting of the United States from earliest Colonial times to about 1870 viewed against European influences and against the historical and social background. FALL.

Art in the United States: From 1870
7.505

Evaluation of the contributions and limitations of American art since 1870 during the period characterized by a search for a new style in architecture, sculpture, and painting. SPRING.

BIOLOGY *

STEPHEN P. HATCHETT
Chairman of the Department

PROFESSOR: Stephen P. Hatchett.
ASSISTANT PROFESSOR: Phoebe H. Knipling
INSTRUCTOR: Stanley McCausland.
LECTURERS: Albert J. Dalton, O. Benwood Hunter.

Human Biology 9.100

Nature of living organisms. The development and functions of man with special attention to the nervous system, growth, maturity and health. *Demonstrations; no laboratory.* FALL. Hatchett.

General Zoology [4] 9.110

Structure, function, development, heredity, and evolution of animals. Field trips and museum assignments. *2 hours of lecture, 1 hour of recitation, 4 hours of laboratory.* FALL. Hatchett.

General Botany [4] 9.111

Structure, function, and development of a typical flowering plant. Survey of plant kingdom. Study of the campus woodland; field trips; observation at the National Botanic Garden. *2 hours of lecture, 1 hour of recitation, 4 hours of laboratory.* SPRING 1953. Knipling.

Comparative Vertebrate Anatomy [4] 9.200

Comparative anatomical study of the organ systems of animals representing the classes of vertebrates. *Prerequisite, General Zoology 9-110 and General Botany 9-111. Course required of students preparing for admission to medical and dental schools. 3 hours of lecture, 4 hours of laboratory.* FALL McCausland.

Physiology [4] 9.201

Structure and functions of the human organ systems. *3 hours of lecture, 4-hour*

laboratory. Course primarily for students in physical education and psychology. Prerequisite, General Zoology 9.110. SPRING. McCausland.

General Bacteriology [4] 9.205

Bacteria and their relationship to human welfare. Culture methods; principles of sterility; aseptic techniques. *Prerequisite, General Zoology 9-110, General Botany 9-111; General Chemistry 15-110 and 15-111. 2 hours of lecture, 4 hours of laboratory.* SPRING. Hatchett.

Plant Anatomy [4] 9.207

Comparative study of the structure of vascular plants with emphasis on seed plants. Microscopic study of the tissues of mature and developing roots, stems, leaves, flowers, fruits, and seeds. *Prerequisite, General Botany 9-111. 2 hours of lecture, 4 hours of laboratory.* 1953 FALL AND ALTERNATE YEARS. Knipling.

Plant Taxonomy [4] 9.208

Classification principles of vascular plants followed by study of important families of flowering plants. Extensive field work, collecting, identifying, and mounting of specimens. Field trips to National Herbarium, National Arboretum, National Botanic Garden, and municipal parks. *Prerequisite, General Botany 9-111. 2 hours of lecture, 4 hours of laboratory.* 1954 SPRING AND ALTERNATE YEARS. Knipling.

Dendrology [4] 9.209

Identification under field conditions of native trees and shrubs. Consideration of commercial woods. *Prerequisite, General*

* A laboratory fee of \$5.00 for each course of 4 credit hours or less will be assessed from all part-time students registered in laboratory courses. The fee is not refundable.

Botany 9-111. 2 hours of lecture, 4 hours of laboratory. 1952 FALL AND ALTERNATE YEARS. **Knippling.**

General Entomology [4] 9.300

Morphology, life history, classification, and economic importance of insects. *Prerequisite, General Zoology 9-110 and General Botany 9-111.* 2 hours lecture, 4 hours of laboratory. 1952 SPRING AND ALTERNATE YEARS. **Hatchett.**

Biogeography [3] 9.301

World distribution of organisms and bases for such distribution. Vegetation in the United States. Climate, physiography, and geology in relation to distribution. Field Trips. *Prerequisite, General Zoology 9-110 and General Botany 9-111.* 1953 SPRING AND ALTERNATE YEARS. **Staff.**

Plant Ecology [4] 9.302

The plant in its environment. Principles of plant succession; extensive field study of stream and slope succession toward a climax forest. Role of plants in the production of soil and in the preservation and fertility of the land. Field trips including experience at the United States Weather Bureau and the Bureau of Soil Conservation. *Prerequisite, General Botany 9-111.* 2 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. **Knippling.**

Invertebrate Zoology [4] 9.304

Morphology, physiology, and evolutionary relationship of invertebrate animals. *Prerequisite, General Zoology 9-110 and General Botany 9-111.* 2 hours of lecture and 4 hours of laboratory. FALL. **Hatchett.**

Field Zoology [4] 9.305

Field study of local animal forms and of their adaptation, geographical distribution, behavior, and relationship to environment. *Prerequisite, General Zoology 9-110 and General Botany 9-111.* 2 hours of lecture, 4 hours of laboratory and field work. 1953 SPRING AND ALTERNATE YEARS. **Hatchett.**

Clinical Laboratory Methods [4] 9.306

Technics utilized in a clinical laboratory. Course planned primarily for students plan-

ning for careers in medical technology. *Prerequisite, General Zoology 9-110, General Botany 9-111, General Bacteriology 9-205, 2 sessions of General Chemistry 15-110 and 15-111.* 2 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. **McCausland.**

Clinical Laboratory Practice [7] 9.307

Six month apprentice experience in laboratory of a hospital affiliated with the University in its medical technology program. *Prerequisite, permission of chairman of department and laboratory director.* Offered to meet needs of students. **Hunter and staff.**

Advanced Clinical Laboratory Practice [7] 9.308

Advanced study through six months of additional hospital laboratory practice beyond that provided in Clinical Laboratory Practice 9-307. *Prerequisite, satisfactory completion of Clinical Laboratory Practice 9-307 and recommendation of the laboratory director to the chairman of the department.* Offered to meet needs of students. **Hunter and staff.**

Plant Physiology [4] 9.400

Plant function in relation to structure and environment. Individual and group experiments carried on in departmental greenhouses as well as in laboratory. Field trips to Bureau of Plant Industry, United States Agricultural Experiment Stations, and the United States Weather Bureau. *Prerequisite, 4 hours of botany and 8 hours of chemistry.* 2 hours of lecture, 4 hours of laboratory. 1953 FALL AND ALTERNATE YEARS. **Knippling.**

Genetics [4] 9.401

Principles of heredity and variations in animals and plants. Laboratory experiments and problems in breeding to illustrate Mendelian laws. *Prerequisite, General Zoology 9-110 and General Botany 9-111.* 2 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. **Hatchett.**

Vertebrate Embryology [4] 9.402

Mechanics of development. Formation of germ cells, fertilization, cleavage of the fer-

tilized egg, morphogenesis, and later development of the frog, chick, and pig. *Prerequisite, Human Anatomy and Physiology 9-116 or Comparative Vertebrate Anatomy 9-200. 3 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. McCausland.*

Histology [4] 9.403

Microscopic structure of the tissues and organs of representative mammals including man. *Prerequisite, General Zoology 9-110, Human Anatomy and Physiology 9-116, or Comparative Vertebrate Anatomy. 2 hours of lecture, 4 hours of laboratory. FALL. Dalton.*

Histological Technics [4] 9.404

Fundamental technics involved in the preparation of microscopic slides of both plant and animal tissues. Advanced studies in histology. *Prerequisite, Histology 9-403. 2 hours of lecture, 4 hours of laboratory. 1952 SPRING AND ALTERNATE YEARS. Dalton.*

Parasitology [4] 9.406

Parasites and their relationships to disease and human welfare. Life histories, morphology, identification, and parasitological preparations. *Prerequisite, permission of instructor. 2 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. Hotchett.*

Cytology¹ [3] 9.407

Seminar on structure and properties of cells with particular emphasis on the nucleus and its various structural changes. *Prerequisites, Histology 9.403 and Organic Chemistry 15.300. 1953 FALL AND ALTERNATE YEARS. Dalton.*

Cytology² [3] 9.408

Continuation of *Biology 9.407* with special reference to cytoplasm of cells and various types of microscopy. *Prerequisite, Biology 9.407. 1954 SPRING AND ALTERNATE YEARS. Dalton.*

Comparative Physiology [4] 9.410

Advanced study of the fundamentals of physiology applicable to all protoplasm considered from a comparative point of view. *Prerequisite, 16 hours of biology and 2 sessions of General Chemistry 15-110 and 15-111. 2 hours of lecture, 4 hours of laboratory. 1953 SPRING AND ALTERNATE YEARS. McCausland.*

Advanced Biological Studies [4] 9.420

Introduction to research provided for competent students in field of special interest related to professional careers. *Prerequisite, permission of the chairman of the department. Staff.*

BUSINESS ADMINISTRATION

NATHAN A. BAILY

*Director of the Division in the Department of Economics
and Business Administration*

PROFESSORS: John R. Immer; Melville J. Ulmer.

ADJUNCT PROFESSOR: Harry W. Ketchum.

ASSOCIATE PROFESSOR: Nathan Baily.

ASSISTANT PROFESSORS: Arthur W. Carnduff; David S. Fields; Theodore H. Levin.

PROFESSORIAL LECTURERS: Lloyd W. Fletcher, Jr.; Thomas L. Phillips; John R. Rigglesman; Myles E. Robinson.

LECTURERS: A. MacGregor Ayer; Lee M. Barcy; V. T. H. Bien; William Bloom; Joel F. Clements; Sherman S. Cohen; J. Harvey Daly; Leo David; Lawrence Dobrow; Bernard T. Dodder; Alfred H. Edelson; Carl Feiss; William A. Furman, Jr.; Manley G. Goodrick; Joseph H. Green; Robert C. Kovarik; George J. Link; Curt C. Mack; Ferd Naueheim; Jack Neff; John Perry; A. M. Prothro; Thomas M. Raysor; Jacob Seidenberg; Milton A. Smith; Robert W. Straus; Carey Winston.

BASIC COURSES

Elements of Business Research

11.300

Training in techniques of business research. Sources of business information, analysis and organization of data, writing business reports. *Required for undergraduates majoring in Business and Industrial Management, Advertising, or Banking.* FALL. SPRING. Dodder. Fields.

Business Law¹: Contracts and Agency

11.301

Legal concepts and functions. Federal and state court systems. Legal phraseology; elementary legal bibliography. Elements of law of contracts and agency. FALL. SPRING. SUMMER. Carnduff. Fletcher.

Business Law²: Negotiable Instruments and Business Organizations

11.302

Functions, form, and content of commercial paper. Selected illustrative cases. Elementary law of partnerships, corporations, and trusts. *Prerequisite, Business Law¹ 11.301.* FALL. SPRING. SUMMER. Carnduff. Fletcher.

Business Law³: Bailments, Sales, and Property

11.303

Principles of bailments. Law of sales and sales contracts. Elements of the law of personal property and real property. Terminology involved in transfers of real property. *Prerequisite, Business Law¹ 11.301.* FALL. SPRING. SUMMER. Carnduff. Fletcher. Raysor.

Use of Accounting Methods

11.400

Survey of accounting methods and procedures for non-specialists in accounting. Emphasis on use of accounting as a tool of administration in business and government and as an aid in financial analysis and business and economic research. FALL. SPRING. Ketchum.

Business Correspondence

11.401

Business letters as instruments of correspondence, public relations, sales promotion, and advertising. Sales letters; applications; inquiries and acknowledgments; adjustments, credit and collection letters; other business correspondence. Letter writing as a requisite in business and professional life; importance of business correspondence in modern industry. *Prerequisite, courses in*

composition and business administration or equivalent experience. FALL. Nauheim.

Personal Finance 11.405

Means of solving personal financial problems. Sources of personal financial information. Financing home ownership, purchases of automobiles, medical care. Borrowing: sources, costs, advantages and disadvantages. Savings institutions. Introduction to investments, insurance, taxes. Setting up a trust fund. Making a will. SPRING.

BUSINESS MANAGEMENT

Business Organization and Administration¹ 11.410

Principles of organization of business enterprises. Survey and analysis of specialized functions of modern business. Primarily for M.B.A. degree candidates whose undergraduate major was *not* business administration and for students interested in a broad overview of business. *Prerequisite, basic courses in accounting, economics, and statistics.* FALL. SPRING. SUMMER. Fields. Goodrick. Levin.

Business Organization and Administration² 11.411

Continuation of *Business Organization and Administration¹, 11.410*. Emphasis on current business problems and on the case study method. For M.B.A. degree candidates whose undergraduate major was *not* business administration. SPRING. Goodrick.

Economic Analysis in Business 11.510

Economic analysis as a tool of business management. Enterprise economics: adjustment of prices and output volumes to varying market conditions; applications of marginal analysis; competition and monopoly. Elements of capital goods economics. Economics of cost accounting in times of changing price levels. Investment and capital budgeting. *Required of M.B.A. degree candidates. Prerequisite, basic courses in accounting, economics, and statistics.* FALL. SPRING. Levin.

Foundations of Business Forecasting 11.511

Theoretical tools for appraising the economic outlook. Analysis of cyclical fluctuations, leads and lags in economic indicators, patterns of relationship in strategic segments of the economy, secular movements, alterations in the level and structure of the national income. Prognostic values and limitations of pure theory, statistics and institutional studies. *Prerequisite, Economic Analysis in Business 11.510.* SPRING. Ulmer.

Business Budgeting and Executive Control 11.512

Budgetary control as a managerial tool in planning, coordinating, and analyzing business activity. Procedures for formulating accurate sales forecasts. General principles and chronology of preparing inventory, production, promotion, cash budgets. Management case problems. *Prerequisite, at least six hours in accounting and three to six hours in statistics, or equivalent.* FALL. SPRING. SUMMER. Fields.

Business-Government Relationships 11.514

How the individual business man expresses his views and demands to governmental bodies and agencies. How business organizations determine membership views and adopt policy decisions on business-government relationships. Industry recommendations. How business groups cooperate, advise, and assist government with particular reference to problems created by the defense mobilization program. FALL. SPRING. Cohen. Smith.

Management of Small Business 11.516

Application of general management principles to operation of small business. Aids to efficient management; sources of information. Attention to specific operating problems for students interested in establishing their own business and for proprietors of small businesses. *Prerequisite, Business Organization and Administration 11.410.* 1954 SPRING AND ALTERNATE YEARS. Levin.

INDUSTRIAL MANAGEMENT**Principles of Industrial Management 11.420**

Organization and operation of industrial enterprise. Economics of production. Management of physical property. Organization of the physical plant. The production process. Production and cost control. SUMMER. Immer.

Motion and Time Study 11.520

Principles and methods used in analysis of work methods and establishment of standard methods of operation. Measurement of efficiency. Procedures for installation of motion, time, and method programs in large and small enterprises. Practical project required. FALL. SPRING. Immer.

Industrial Plant Planning 11.521

How to get a manufacturing unit into operation. Factors determining location of factories. Layout planning principles and techniques. Types of industrial buildings. Relationships with production engineers, architects, and general contractors. SPRING. Immer.

Materials Handling 11.522

Principles, operating problems, training and instruction programs, cost elements, and selection and use of equipment. Relation of materials handling to total cost. Case studies cited from a wide variety of applications in business, industry, and the military. FALL. Immer.

Management Engineering 11.523

Scope, history, and functions of management engineering. Types of management engineers. Training and experience essential to successful careers in management engineering. *Prerequisite, advanced work in business administration.* SPRING. Carr.

ADVERTISING**Principles of Advertising 11.430**

Advertising approach to marketing problems. Company case histories utilized to

show advantages and limitations of advertising as a managerial tool. Campaigns broken down into elements: budget, product, and consumer studies, media selection, copy, layout, production, scheduling, and testing. *Prerequisite, Marketing Organization 12.410 or permission of instructor.* FALL. SPRING. SUMMER. Dobrow.

Sales Promotion 11.530

Methods and devices used by business firms to increase effectiveness of the demand created by merchandising, mass advertising, and personal selling activities. Emphasis on sales promotion techniques which aid students to develop their individual selling abilities. *Prerequisite, Principles of Advertising 11.430 or equivalent.* FALL. SPRING. SUMMER.

Advertising Copy 11.532

Principles involved in writing advertisements to stimulate demand. Distinctive problems of various types of advertising copy analysed and methods of copy testing evaluated. Practice in copy writing. *Prerequisite, permission of instructor.* FALL. Dobrow.

Advertising Layout and Production 11.533

Arrangement of headlines, copy, and illustrations to achieve balance, gaze motion, distinctiveness, and legibility. Type, paper and production processes. Practice in visualizing, laying out, scheduling, and producing newspaper, magazine, direct mail, and point-of-sale advertisements. 1953 FALL AND ALTERNATE YEARS.

Media 11.535

Selection and use of all advertising media except television, radio, and direct mail. Operations and functions of newspaper and magazine advertising departments. Scheduling requirements, methods of evaluation, rate structures. 1954 SUMMER. Hippen.

Direct Mail Selling 11.536

Principles and practices of direct advertising. When and how to use direct mail selling. How to program, prepare, and buy direct mail pieces. Postal regulations. 1953 FALL AND ALTERNATE YEARS. Nauheim.

Retail Advertising 11.537

Characteristics and problems of retail store advertising. Advertising department organization. Media selection and budgeting. The newspaper advertisement, preparation of headlines and copy; elements of production; evaluation methods. Analyses of current retail advertising. Supplemental media. *Prerequisite, Sales Promotion 11.530 or permission of instructor.* 1953 SUMMER. **Dobrow.**

National Advertising 11.538

Advertising industrial and consumer goods and services on a national scale. Students function as an advertising agency or manager in planning and recommending effective advertising. Methods of implementing advertising plans and coordinating them with other selling efforts. *Prerequisite, Retail Advertising 11.537.* Not offered in 1952-1953.

Advertising Management 11.630

Analysis of management, finance, and accounting functions in advertising. Long range planning. Advertiser-agency relationships. Personal work control methods. Merchandising of advertising programs. *Prerequisite, practical experience in advertising or sales promotion or permission of instructor.* 1953 FALL. **Edelson.**

INSURANCE**Life Insurance¹ 11.560**

Fundamental principles, analysis of companies, contracts, and costs to policyholders. Premium computation, valuation, apportionment of surplus. State regulations, laws, and judicial decisions affecting life insurance. Course preparatory for Part A of the Chartered Life Underwriter's examination. 1953 FALL AND ALTERNATE YEARS. **Link.**

Life Insurance² 11.561

Fundamental principles of life insurance dealing with estate planning and group life insurance. Methods of computing mortality tables, premiums, and reserves. History of life insurance. Role of life insurance in the

economic development of the United States. Course preparatory for Part A of the Chartered Life Underwriter's examination. Open to students who have not had Life Insurance.¹ 1953 SPRING AND ALTERNATE YEARS. **Link.**

Property Insurance 11.562

Fundamental principles. Types of insurance organizations. Reinsurance. Analysis of contracts and insurable interest. Endorsements: clauses and forms; insuring consequential loss. Loans, adjustments, and settlements; rates and reserves. Ocean and inland marine insurance. SPRING. **Dodder.**

Casualty Insurance 11.563

Insurance against legal liability and property damage. Analysis of various coverages of general liability, automobile, and aviation insurance and the Rating Procedure. Insurance against dishonesty; theft insurance; fidelity and surety bonds; credit and title insurance. SUMMER. **Dodder.**

PERSONNEL MANAGEMENT**Personnel Management in Industry 11.470**

Human relations in industry; development of personnel management. Recruitment, selection, training, promotion, and transfer. Morale and discipline policies. Procedure in personnel records and research, health and safety. Human engineering and management efficiency. FALL. SPRING. **Ayer. Levin.**

Wage Administration and Job Evaluation 11.570

Bases for efficient administration of wages and salaries, job description, job specification. Dictionary of occupational titles, types of wage payment. Incentive and bonus plans, overtime, shift differentials, merit rating. Job evaluation and job classification. Legislation and wage administration. SPRING. **Levin.**

Labor Relations and Collective Bargaining 11.571

Development of labor as an institutional group. Impact of labor relations on the

economy. Employer-union relationships in modern industry, collective bargaining, negotiation and administration of contracts. Union-management conflict and cooperation. Conciliation, mediation, and arbitration. Government regulation of labor relations. **SPRING. SUMMER. Kovarick, Levin, Seidenberg.**

Supervision in Industry 11.572

Essentials of effective supervision. Responsibilities and authority of supervisory personnel. Communication with employees and management. Instruction of new workers; promotions, discharges, and transfers; job improvement and safety. Administration of union contracts. **FALL. Daly.**

Communication and Employee Productivity 11.573

Effective communication as a factor in increasing employee productivity in business and industry. Techniques for utilizing human factors in executing management policies and for evaluating and correcting distortions resulting from human factors. Unions and communication. Application of techniques to actual situations through case histories. **FALL. Straus and Perry.**

REAL ESTATE

Fundamentals of Real Estate 11.480

Basic economics, history, and ethics of the real estate business. Role of real property in economic life. Real estate terminology. Transfer of real property, real estate markets, construction and building, home ownership. **SPRING. David, Furman.**

Real Estate Practice¹ 11.580

Practical operation of the real estate brokerage business. Economic, functional, ethical, and legal status and responsibilities of the broker. Local regulations: real estate commission, building inspector, surveyor, zoning, and rent control. Appraising residential and income properties. Financing: conventional, F.H.A., and G.I.; taxation; construction and finished loans. **FALL. Phillips.**

Real Estate Practice² 11.581

Continuation of *Real Estate Practice¹ 11.580*. Advertising. Listings. Selling: crea-

tive selling, ground sales. Real estate developments. Leases: residential and commercial. Sales contracts and settlements. **SPRING. Phillips.**

Real Estate Law 11.582

Legal aspects of real estate transactions designed for non-lawyers. Current practices and requirements in acquisition, encumbrance, and transfer of real property. Rights and obligations of the parties in sales transactions. The mortgage, deed of trust, and other liens. Easements and incorporeal interests in land. General survey of real property law and analysis of important cases and statutory provisions. **FALL. SUMMER. Prothro.**

Home Building 11.583

Stages in construction of a home. Site selection and acquisition. The architect's duties and responsibilities. House design, types of architecture, building codes, and permits. Materials of construction. Setting and landscaping. Costs and financing. Selection of the builder, building contracts and bonding. What to look for in a finished house. **FALL. Bien.**

Mortgage Financing 11.584

History of mortgage lending. Evaluation of loan applications, property appraisal. Underwriting the mortgage risk, selling the loan, correspondent-investor relationships. Construction loans. Government mortgage financing. Closing and servicing loans. New mortgage business. **FALL. Winston.**

Real Estate Management 11.585

Nature of property management. Evolution as a specialized branch of real estate operations. Management of commercial and dwelling units, neighborhood analysis, tenant selection, maintenance and repair, public relations. **SPRING. Winston.**

Urban Land Economics 11.586

Basic principles of utilization, valuation, financing, taxation, and control of urban land with their relationship to community development. 1953 **SPRING AND ALTERNATE YEARS.**

Urban Community Planning 11.587

Community planning as a factor in urban development and efficient land utilization. Its relationship to other municipal functions such as capital improvement programs, zoning, building codes, and other land and building use controls. Relationship to metropolitan, state, and national planning and housing programs and to private ownership of real estate. Personnel, political aspects, and public relations problems. *Prerequisite, Urban Land Economics, 11.586.* 1953 FALL AND ALTERNATE YEARS. **Feiss.**

Housing Market Analysis 11.588

Dynamics of local housing market. Economic factors of demand and supply which influence housing market. Emphasis on local housing finance problems at a local and a national level. 1953 SPRING AND ALTERNATE YEARS. **Bloom.**

Real Estate Appraisal¹ 11.680

Principles of real property valuation. Physical appraisal of private dwellings, apartments, commercial property. Mathematics of appraising. Qualifications of the appraiser. *Prerequisite, 12 hours of work in real estate courses. American Institute of Real Estate Appraisers fee for all students \$20.00. Total charge: \$59.00.* SPRING. **Mack.**

Real Estate Appraisal² 11.681

Application of principles of appraisal. Field work involving actual appraisal of different types of property followed by classroom analysis and discussion. *Prerequisite, Real Estate Appraisal¹ 11.680. Total charge: \$75.00, includes \$20.00 Institute fee.* 1953 SUMMER. **Mack.**

MARKETING**Marketing Organization 12.410**

Activities involved in distribution of goods to consumers. Structure and significance of marketing institutions. Buying motives of individual and industrial consumers; factors affecting their demand for goods. Marketing policies and practices. FALL. SPRING. **Fields. Levin.**

Principles of Marketing¹: Institutions 12.411

General nature of the marketing process. Principal economic and business concepts employed in marketing. Analysis of activities and institutions required in marketing various types of commodities and reasons for existing channels of distribution. Social and economic factors and trends affecting marketing of goods. FALL. **Riggelman.**

Principles of Marketing²: Problems 12.510

Marketing and costs of distribution. Relationships of marketing to prices, volume of production, and maintenance of competition. Role of the consumer. Elements of marketing efficiency. Merchandising, margins, and expenses. Cooperatives and Trade Associations. Governmental policies. *Prerequisite, Principles of Marketing¹ 12.411.* SPRING. **Levin. Riggelman.**

Market Analysis 12.511

Problems of isolating, measuring, and appraising factors conditioning size and character of markets for a specific commodity. Organization and functions of a market research project. Market analysis procedure. Sampling techniques, preparation of questionnaires, and planning field surveys. Actual case studies utilized. *Prerequisite, Marketing Organization 12.410 and Fundamentals of Statistics 69.200.* FALL. SPRING. **Fields. Robinson.**

Distribution Cost Analysis 12.512

Use of marketing data as management tools to reduce distribution costs and increase selling efficiency. Techniques of analyzing distribution costs and profits by products, customers, and territories. Effect of distribution costs on the over-all position of the firm. *Prerequisite, Market Analysis 12.511.* 1953 FALL AND ALTERNATE YEARS. **Levin.**

Sales Management 12.514

Organization of the sales department. Qualifications and duties of the sales manager. Recruitment, selection, and training of salesmen. Planning and conducting sales

campaigns. Sales trend studies; sales forecasts. Sales cost and control. Offered with the cooperation of the Washington Sales Executives' Club. FALL. **Barcy.**

Marketing Policies 12.612

Problem approach to marketing at the level of policy determination and planning. Pricing policies. Selection of distribution channels and territories. Competition; government controls. Organization and direction of sales campaigns. Marketing tools of management. 1953 SPRING AND ALTERNATE YEARS. **Robinson.**

RETAILING

Principles of Retailing 12.420

Procurement and distribution of merchandise by retailers. Types of retail organizations. Consumer economics from the retailer's viewpoint. Retail buying. Pricing policies. Planning and control. Legal regulations. FALL.

Retail Salesmanship 12.421

Intensive course designed to develop skill in aiding customers in their purchase of goods. Analysis of buying motives; effective retail selling techniques; characteristics of efficient sales personnel. Selling as a career; opportunities in the retail field. SPRING. **Nauheim.**

Fashion in Retailing 12.520

Fashion principles and procedures used in the selection, promotion, and selling of merchandise in retail stores. Fashion as a social force; its effect on consumers, manufacturers, and retailers. Survey of current fashions and the work of prominent designers. Fashion as a career; evaluation of employment opportunities for men and women. 1953 SPRING AND ALTERNATE YEARS.

Retail Buying and Merchandising 12.521

Pre-buying preparation; techniques of selecting new lines; merchandise selection;

ordering. Resident buying. Merchandising and its relation to buying. Merchandise planning and budgeting; merchandising and sales promotion. SPRING. **Green.**

Mathematics of Merchandising 12.522

Interpretation of operating figures and their application in the management of a selling department. Paper work of receiving and marking; payment of invoices; inventory planning, and control of sales, stocks, purchases, and markdowns. Special emphasis to the retail method of inventory and its uses as a merchandising tool for computation of profits. FALL. **Neff.**

Management of Merchandising Departments 12.523

Merchandising departments in large, medium, and small department and specialty stores: organization and functions. Responsibilities and functions of department heads, training of personnel, merchandise and personnel budgeting, analysis of a department's performance from operating reports, control and balance of stock, techniques of buying and determining customer needs, how to plan a sales promotion. FALL. **Clements.**

RESEARCH AND SPECIAL PROJECTS

Institute on Employee Communication (No Credit) 31.001

Problems in employee communication. Principles of communication, media for industrial communication, group relations analysis, employees' opinion surveys. Opportunities for student discussion and exchange of ideas. SPRING. **Baily. Straus and Perry.**

Seminar in Business Administration 12.710

Thesis Seminar in Business Administration 12.799

CHEMISTRY*

LEO SCHUBERT

Chairman of the Department

PROFESSOR: Bancroft W. Sitterly.

ASSISTANT PROFESSORS: C. H. H. Neufeld; Leo Schubert.

LECTURERS: James I. Hoffman; Edward S. Josephson;
Lawrence Kushner; Daniel Banes.

Physical Science: Matter 15.100

Principles and concepts of chemistry with application to the utilization of natural resources and the production of artificial materials. Varieties and transformation of matter. Types of reaction, quantitative and thermal relations, speed and direction of reactions. Fuels, metallurgy, and synthetics. FALL. SPRING. Sitterly.

Science in Industry 15.101

Scientific aspects of selected industries. Physical properties of materials, structure of matter and principles of chemical combination, sources and production of power. Manufacture of cement, paper, steel, aluminum, nylon. *Demonstrations; no laboratory.* FALL. SPRING. SUMMER. Banes. Sitterly.

General Chemistry¹ [4] 15.110

Introduction to the methods of scientific thinking through the study of the laws of chemistry. Atomic theory, kinetic-molecular theory, gas laws, solutions, ionic theory, chemical properties of some non-metals and their compounds. *Prerequisite, high school algebra and geometry. 3 hours of lecture and recitation, 4 hours of laboratory.* FALL. Schubert.

General Chemistry² [4] 15.111

Chemical equilibria; the periodic law. Metals and their compounds, common metal ions. Brief introduction to organic chem-

istry. Final 12 weeks devoted to qualitative analysis. *Prerequisite, General Chemistry¹ 15.110. 3 hours of lecture and recitation, 4 hours of laboratory.* SPRING. Schubert.

Quantitative Analysis¹ [4] 15.200

Theories of volumetric and gravimetric analysis, laboratory determination of metals in their ores, and analyses of representative types of rocks. *Prerequisite, General Chemistry 15.111. 2 hours of lecture, 1 hour of recitation, 6 hours of laboratory.* FALL. Schubert.

Quantitative Analysis² [4] 15.201

Special methods of analysis such as colorimetry, electrometric titrations (glass electrode) and electrodeposition. *Prerequisite, Quantitative Analysis¹ 15.200. 2 hours of lecture, 1 hour of recitation, 6 hours of laboratory.* SPRING. Schubert.

Organic Chemistry¹ [4] 15.300

Carbon compounds. The aliphatic series: hydrocarbons, alcohols, acids and their derivatives, halogen compounds, and amines. Structural interrelationships, and physiological and economic significance of these compounds. Laboratory experience in organic analysis and synthesis. *Prerequisite, General Chemistry 15.111. 3 hours of lecture and recitation, 6 hours of laboratory.* FALL. Neufeld.

Organic Chemistry² [4] 15.301

Aromatic and heterocyclic compounds. Chemistry of drugs, dyes, carbohydrates.

*A laboratory fee of \$5.00 for each course of 4 credit hours or less will be assessed from all parttime students registered in laboratory courses. The fee is not refundable.

Laboratory experience in preparations and in qualitative organic analysis. *Prerequisite, Organic Chemistry*¹ 15.300. 3 hours of lecture and recitation, 6 hours of laboratory. SPRING. Neufeld.

Glassblowing [1] 15.305

Practical training in soft and hard glassblowing. Techniques of making simple seals, inner seals, joints, bends, and other operations necessary for laboratory competence. Student must construct a simple piece of laboratory apparatus such as a condenser. 1 hour demonstration and supervised practice, 2 hours laboratory practice. Offered to meet student needs. Staff.

Physical Chemistry¹ [4] 15.400

Principles of theoretical chemistry and laws governing chemical reactions. The states of matter, properties of solutions, thermodynamics, and homogeneous equilibria. *Prerequisite, Quantitative Analysis* 15.201, *Differential and Integral Calculus, Physics*. 3 hours of lecture and recitation, 4 hours of laboratory. FALL. Kushner.

Physical Chemistry² [4] 15.401

Phase rule, chemical kinetics, electrical conductance, electromotive forces, atomic structure, and radioactivity. *Prerequisite, Physical Chemistry* 15.400. 3 hours of lecture and recitation, 4 hours of laboratory. SPRING. Kushner.

Colloid Chemistry¹ 15.405

Applications of physico-chemical principles to colloidal systems. Solid and liquid surfaces, absorption, large molecules in solution, structure of natural and synthetic colloids. Emphasis on new techniques of investigating such systems. *Prerequisite, Physical Chemistry* 15.400. 3 hours of lecture and recitation. 1954 SPRING. Staff.

Organic Preparations [4] 15.410

Preparative methods of organic chemistry with attention directed to special techniques such as vacuum distillation, chromatography and extractions. Preparation of organic com-

pounds in pure condition with reference to the original literature. *Prerequisite, Organic Chemistry* 15.301. 1 hour of lecture, 8 hours of laboratory. 1954 SPRING. Neufeld.

Advanced Organic Chemistry [4] 15.420

Introduction to theoretical and systematic organic chemistry. *Prerequisite, Organic Chemistry* 15.301. 4 hours of lecture and recitation. FALL. Neufeld.

Qualitative Organic Analysis [4] 15.421

Lectures and laboratory work on the identification of organic compounds. *Prerequisite, Organic Chemistry* 15.301. 1 hour of lecture and recitation, 8 hours of laboratory. 1953 SPRING. Neufeld.

Advanced Inorganic Chemistry [4] 15.423

Descriptive inorganic chemistry including the periodic system, radioactivity, the elements and coordination compounds. *Prerequisite, Quantitative Analysis* 15.201. 4 hours of lecture. 1953 FALL. Schubert.

Engineering Chemistry [1] 15.425

Correlation of knowledge obtained through systematic chemistry courses with industrial practice. The sulfur, aluminum, and steel industries as well as industrial wastes and water studied. Application of chemistry developed. *Prerequisite, Organic Chemistry* 15.301. 1 hour of lecture. 1953 FALL. Hoffman.

Biochemistry [4] 15.430

Fats, proteins, carbohydrates, and their digestion. Enzymes and vitamins. Chemotherapy and immunology. *Prerequisite, Organic Chemistry* 15.301. 3 hours of lecture and recitation, 4 hours of laboratory. 1953 FALL. Josephson.

Biochemistry [4] 15.431

Biological antagonists, respiration, metabolism of organic and inorganic foods. Hormones and nervous system. Nutrition and medicine. *Prerequisite, Biochemistry* 15.430. 3 hours of lecture, 4 hours of laboratory. 1954 SPRING. Josephson.

COMMUNICATION

WALTER P. BOWMAN
Chairman of the Department

PROFESSOR: Walter P. Bowman.

ADJUNCT PROFESSORS: Floyd E. Brooker; James R. Mock; Frank H. Mortimer.

PROFESSORIAL LECTURERS: J. Stanley McIntosh; Carl L. Shipley.

LECTURERS: Anna Hyer; Eva M. Mahoney.

Improvement of Reading 17.210

Improvement of reading efficiency through supervised individual and group practice during class periods. A diagnosis of individual reading habits. Practical approach to the improvement of specific reading skills which will enable the student to read with increased accuracy and understanding. Laboratory fee \$8.00. FALL. SPRING. Mahoney.

History and Principles of Communication 17.500

Development of newspapers, magazines, radio, motion pictures, and television as media of communication. Backgrounds and historic roots of current principles and practices. Influence of communication media on political, economic, and social issues in various periods of history. FALL. SPRING. Mock.

Visual Media in Communication¹ 17.530

Study of the basic characteristics of visual media in terms of psychology and problems of communication. Detailed analysis of presentation of ideas through still pictures, film strips, and motion pictures. Readings, class discussions, lectures, and the working out of specific exercises in pictorial communication. For persons interested in the use of audio-visual aids in education, advertising, and public relations. FALL. Brooker. Hyer.

Visual Media in Communication² 17.531

Continuation of first semester. Advanced work on the practical application of basic

principles of pictorial forms of communication to the filmstrip and motion picture media, in the areas of advertising, education and information. Seminar type of discussion and work, with class working on the actual development of scripts according to their interests and needs. *Prerequisite, Visual Media in Communication¹ 17.530.* SPRING. Brooker. Hyer.

Graphic Arts in Communication¹ 17.532

Review of the distinguishing characteristics of type, the use and affinity of type faces, composition methods, and other graphic means of expression in their application to layout, typographic design and manufacturing processes. Printing production processes with their terminology, including photoengraving methods, selection of paper and styles of binding, methods and selection of work for letter-press, gravure and lithographic printing, and other basic information for planning pamphlets, books, folders, etc. FALL. Mortimer.

Graphic Arts in Communication² 17.533

Application of basic practices of layout and design. Survey of the organization of elements for the printed piece. Selection and use of illustrations and photographs for printing. Examination and analysis of printed specimens, both commercial and governmental, for effectiveness and design factors. Laboratory work with class and home assignments in the techniques of organization in planning books, pamphlets, and folders for printing production. SPRING. Mortimer.

History of Motion Pictures 17.550

History and development of the motion picture with emphasis on the social, cultural, and educational aspects. Selected films will provide a professional review of the history, the technical and aesthetic development of the motion picture in the United States and abroad from its invention to the present time. Especially valuable for advanced students in history, sociology, journalism, and television. Laboratory fee to all students except fulltime undergraduates \$3.00. FALL. McIntosh.

Communication Law 17.600

Study of legal problems and controls in the fields of journalism, visual communication, television, and radio. Analysis of specific libel suits, copyright infringements, etc. No previous knowledge of law required. Course planned for the general student as well as for the specialist in the mass media of communication. FALL. Shipley.

Thesis Seminar in Communication 17.799

Hours to be arranged. Bowman.

ECONOMICS

FRITZ KARL MANN

Chairman of the Department

PROFESSORS: Ernst Correll; Ludwig M. Homberger; Fritz Karl Mann; Louise Sommer (visiting); Melville J. Ulmer.

ADJUNCT PROFESSORS: Peter G. Franck; Gustav Peck; Howard S. Piquet; Amos E. Taylor; George A. Tesoro; Oscar Weigert.

ASSOCIATE PROFESSORS: Nathan A. Baily; Alfred Sherrard.

PROFESSORIAL LECTURERS: George W. Brooks; Herbert Furth; Charles Merwin; Myles E. Robinson; Murray Ross; Frank Tamagna.

LECTURERS: Edward Allen; Edward Ames; Russell S. Bernhard; Monroe Burk; Manuel Eber; Alexander Eckstein; Paul Fisher; Raymond Goldsmith; Donald Horton; Benjamin Kaplan; Maxwell Kaufman; Robert C. Kovarik; Joseph Loftus; Malcolm D. Miller; Simon Naidel; Hobart S. Perry; Webster Powell; Morris V. Rosenbloom; Emil G. Spitzer; Haskell T. Wald; Morris Weisz; C. Richard Youngdahl.

BASIC COURSES

Structure of the American Economy

19.100

Analysis of the American economic system and business organization. Productive resources; gross national product; net national income. Personal income distribution; patterns of consumption. Major segments of the economy. Commodity and labor markets. The price system. Government regulation. FALL. SPRING. Tesoro.

Principles of Economics¹: Tools of Economic Analysis

19.200

Basic study of production and distribution, demand and allocation of resources. Underlying concepts of supply and demand. Preliminary basis for input-output decisions by the individual firm. Determination of wages, interest, and rent. Fundamental description of the business population, its size, and degree of economic concentration. Introduction to money and credit. FALL. SPRING. SUMMER. Ames. Eber. Sherrard.

Principles of Economics²: Application of Economic Analysis

19.201

Distribution of personal income; flow of income. Introduction to international eco-

nomics: exchange rates, international trade, and the tariff. Introduction to labor economics: trade unions, collective bargaining, labor-government relationships. Problems of the public economy: public expenditures, fundamentals of taxation, introduction to fiscal policy. FALL. SPRING. SUMMER. Tesoro.

Economics of the Firm and Industry

19.202

Basic study of production and distribution, demand and allocation of resources. Underlying concepts of supply and demand. Preliminary basis for input-output decisions by the individual firm. Determination of wages, interest, profit, and rent. FALL. SPRING. SUMMER. Burk. Sherrard.

Evolution of Economic Institutions

19.300

Growth of economic civilization in the western world as expressed in its institutions. Functions, underlying concepts, and place in the social, cultural, and political life. SPRING. Correll.

Intermediate Economic Theory 19.301

Theory of competition: demand, production, function, pricing. Introduction to monopolistic competition theory and to the

theory of income distribution. Selected topics in monetary and labor theory, international trade, and business cycles. Use of economic diagrams. FALL. SPRING. SUMMER. Burk. Naidel. Sherrard.

Financial Organization of Society 19.302

Foundation for the study of both private and public finance. Introduction to the history of national institutions. The short, intermediate, and long-term financing of business enterprise. Relations of public and private financing to the flow of income payments and price levels. Function of credit control. FALL. SPRING. Sherrard. Sommer. Wald.

International Economics 19.400

Systematic survey of basic factors in the functioning of the world economy and economic principles underlying international trade, international payments, determination of exchange rates, and capital transfers to advanced and underdeveloped countries. Analysis of objectives and effects of trade and exchange regulations and of the function of international agencies such as the International Bank and Monetary Fund. General agreement on tariffs and trade; Economic and Social Council. *Prerequisite, Principles of Economics*⁸ 19.201 or equivalent. FALL. Burk. Franck. Sommer.

Consumer Economics 19.401

The structure of consumption. Impact of changes in consumer income and in income distribution. Impact of installment buying. Channels of distribution of consumer goods. Cost of distribution. SPRING. Sherrard.

Economics of Public Finance 19.402

General principles in public finance. Comparative survey of fiscal institutions in the United States and abroad. Special attention to current problems in taxation, public spending and debt management. SPRING. Wald.

ECONOMIC THEORY

History of Economic Thought: Early Period 19.510

Social and economic theories from the Greek philosophers to eighteenth century

physiocrats examined in relation to dominant and receding institutions. Students with major interest in economics, history, or sociology given opportunity to develop their special concern. FALL. SUMMER. Correll.

History of Economic Thought: Modern Period 19.511

Economic problems and their solutions from the physiocrats and classicists to the marginal utility school and general equilibrium doctrine including institutional approach and the economic doctrines of socialism. SPRING. SUMMER. Mann.

Equilibrium Analysis¹: Theory of Prices and Production 19.512

Stationary, dynamic, and normative equilibria. Equilibrium of the consumer. Theory of demand. Equilibrium of the firm. Theory of production. Marginal revenue curves. Supply and cost curves. Output determination of a firm under various market situations. The concept of industry in equilibrium. General equilibrium and allocation of resources. SUMMER. FALL. Naidel. Sherrard. Ulmer.

Equilibrium Analysis²: Theory of Income Distribution 19.513

Application of general price theory to functional distribution. Demand for labor by the individual firm, the industry, and the whole economy. Elasticity of labor supply. The price of loanable funds. Marginal efficiency of capital. Time dimension of the capital structure. Long-term expectations. Time preference and liquidity preference. The price of factors with inelastic supply. SUMMER. SPRING. Naidel. Ulmer.

Theory of Income and Employment 19.514

Analysis of economic aggregates. Dynamic relationships between saving, investment, consumption, national income, and employment. Determination and influence of propensity to consume, liquidity preference, money supply, and the interest rate. The multiplier principle and the acceleration principle. Role of relative prices in determination of aggregate income. FALL. SPRING. Sherrard.

Theory of Business Fluctuations 19.515

Significance and types of fluctuations. Marxian, neo-classical, and Keynesian theories. Mathematical models and institutional approach. Expansion, contraction, and turning points. Fluctuations of United States economy since 1929. Problems of labor, agriculture, construction, and inventory accumulation. Forecasting and planning. International repercussions. Proposals for domestic and international stabilization. SUMMER. FALL. Furth.

Theory of Economic Development 19.516

Development of capitalism and its long-term outlook. Role of business enterprise and technology in shaping economic institutions; the standard of living; pace of economic growth. Changing relations between capital and labor. Population growth, international relations, financial institutions, and their relation to secular trends in the capitalist economy. SPRING. Furth.

Business Cycle Policies 19.517

Public and private policies relating to the stabilization of business: priming the pump, compensatory spending, incentive taxation, public works, price and wage determination, inventory policy. The influence of monopoly and other impediments to competition. SUMMER. Furth.

National Income and Social Accounting 19.518

Concepts, sources, and methods used in measuring national income, income payments, income by states or regions. National product, capital formation, consumer expenditures and saving. Adjustment of aggregates for price changes. Application of national income estimates to economic problems. FALL. Goldsmith. Sherrard.

Comparative Economic Systems 19.519

Pattern and evolution of economic systems. Principles governing pricing, income distribution, productivity, investment, eco-

nomie stability and growth under capitalism, democratic socialism and totalitarian socialism. Particular reference will be given to an analysis of economic policies in the Soviet Union, Nazi Germany, Great Britain and the United States. *Prerequisite, Intermediate Economic Theory 19.301 or the equivalent.* FALL. Eckstein.

Mathematical Economics 19.610

Application of mathematical reasoning to the study of economics with particular attention to the logical implications of economic laws and their underlying assumptions. Analysis in mathematical terms of the consumption function and the theory of consumer preferences; the production function and demand for labor and capital; theory of monopoly, duopoly, and perfect competition; determination of the national income and selected topics as required in income distribution, international trade, and monetary theory. A continuation of work in advanced economic theory. *Prerequisite, competence in calculus or concurrent registration in a course in calculus.* SPRING. Ulmer.

Construction of Economic Models and Economic Analysis 19.611

Economic models as a tool of economic analysis. Origin and development of economic models. Discussion of some current models dealing with such problems as inventory cycles, the relationship between capital accumulation and the growth of income, and the condition of equilibrium. Economic models and economic projections. The relationship between economic models and policy decisions. FALL. Kaplan. Ulmer.

Economic Theory¹: Psychological and Institutional Approaches 19.612

Analysis and appraisal of representative types of economic theory emphasizing current schools of thought in the United States. Particular attention to the assumptions and logic of classical and neo-classical economics, socialistic thought, modern institutionalism, and aggregate approaches such as the Keynesian in relation to current economic problems. FALL. Piquet.

Economic Theory²: Psychological and Institutional Approaches 19.613

Continuation of 19.612. SPRING. Piquet.

Theory of Welfare Economics 19.614

Utility and real income. Measurability and comparability of welfare. Efficiency of economic organizations. The development of standards for appraising welfare and their application to problems of economic control, intervention, and planning. Social cost, private cost, money cost, and real cost. Relation of economic welfare to other social objectives. FALL. Burk. Ulmer.

Economics of Technology 19.615

Detailed review of existing theoretical and empirical studies of causes, conditions, and economic consequences of technological change. Special attention to the literature on public control of technological change and the role of technology in regional economic development. Emphasis on atomic developments. FALL. Loftus.

Theory of Aggregates 19.616

The determination of income and employment in the economy as a whole. Relationships between savings, investment, consumption, and national income. Determination and influence of the propensity to consume, the volume of investment, liquidity preference, money supply, and the interest rate. Role of relative prices in determination of aggregate income. SPRING. Ulmer.

MONEY, CREDIT, AND BANKING**Money and Banking 19.520**

Outline of national and international monetary and banking structure. Principles of money and credit creation, operation of commercial and investment banks and stock exchanges, policies of central banks and other monetary authorities. Postwar and wartime problems. Interrelations of monetary, banking, fiscal, and other measures. FALL. SPRING. Merwin. Tamagna.

Corporation Finance 19.521

Financing new and established corporate enterprises. Corporate securities. Financial

plans. Marketing of securities: investment banking, securities exchanges, and over-the-counter markets. Short term financing. Corporate expansion. Reorganization and liquidation. *Prerequisite, Financial Organization of Society and Accounting¹ and².* FALL. Baily. Kaufman.

Principles of Investment Banking 19.522

Analysis of the functions and techniques of investment banking. Organization and operations of investment banking firms. Underwriting, competitive bidding, private negotiation. Securities exchanges, the over-the-counter market. Government regulation of investment banking firms. FALL. Spitzer.

Investment Analysis 19.523

Investment theories and policies. Problems of the investor. Sources of information. Analysis of investment instruments by type and by issuer. Portfolio construction and management. *Prerequisite, Corporation Finance.* SPRING. Baily.

Commercial Banking Policies 19.524

Bank liquidity principles and their relationship to bank credit policies. Bank lending to business firms. Short-term lending practices; the term loan. Banks as suppliers of agricultural, consumer, and mortgage credit. Structure of interest rates on bank loans. Bank capital problems; bank earnings; bank supervision. SPRING. Spitzer. Youngdahl.

Monetary and Banking Theory 19.620

Determination and structure of the interest rate. Transaction and income velocity of circulation. Inflation, deflation, and reflation. Quantitative and qualitative credit controls. SPRING. Tamagna.

Theory and Management of Central Banking 19.621

Change in character and functions of central banks. Principle of "reserve" and the role of a central bank in the monetary system. Problems in the use of quantitative and qualitative instruments of central bank-

ing policy. Contribution of central banks to economic and monetary stabilization. International responsibilities. Comparative analysis of central banking in the United States and foreign countries. International cooperation among central banks. FALL. Tamagna.

PUBLIC FINANCE

Fiscal Theory 19.530

Government Financing and Fiscal Control. Fiscal policies and welfare economics. How to support economic stabilization and full employment by fiscal means. Study of their effects on national income, investment, consumption, allocation of resources and prices. Budgetary equilibrium, surplus and deficit financing. Debt redemption and debt management. *Prerequisite, Economics of public finance or equivalent.* FALL. Mann.

Advanced Fiscal Theory 19.632

Discussion of selected problems of fiscal theory such as: the burden of taxation by income groups; redistribution of income and wealth by fiscal means; optimum level of expenditures; the economic budget of the nation as a tool of fiscal planning; problems of capital and cyclical budgeting; the effects of a growing debt on national income and price level; coordination of fiscal, monetary and general economic controls. *Prerequisite, Fiscal Theory or equivalent.* SPRING. Mann.

AGRICULTURAL AND INDUSTRIAL POLICIES

Economics of Agriculture 19.540

Economic characteristics of major types of farm businesses. Factors influencing farm size, organization, and product specialization. Economics of agricultural production and prices; economic aspects of public policy in relation to agriculture with special reference to major problem areas. FALL. Horton.

Economics of American Industry 19.541

Survey of principal manufacturing industries of the United States and interpretation

of predominant economic characteristics of each, such as structure, technology, location, degree of competition, type of market, future outlook. Emphasis placed on the development of a workable technique of industry analysis and sources of data. FALL. Allen.

Current Problems of American Industry 19.542

Survey of some of the principal problems facing manufacturing industries in the United States such as locational change and adjustment, shifting importance of industrial raw material sources nationally and internationally, and pricing adjustments. Concern with trends implicit in policies of public control. SPRING. Allen.

Government Control of Business 19.543

Objectives, methods, and techniques of government economic control. Trends in war-time and peace-time. Control through ownership and market intervention. Control through loans and subsidies. Control of prices, wages, profits, and investments. Use of taxation for regulatory purposes. Socialization of risks. Control of post-war foreign trade. Repercussions on the domestic economic structure and on foreign trade relationships. Problems relating to the termination of governmental economic controls. SPRING. Sherrard.

Public Utility Economics 19.544

Operation, organization, and rates of public utilities. The long term development of power production and distribution and other current issues. Emphasis upon Government regulation and the problems of autonomous government corporations. SUMMER. Homberger.

Current Issues of Agricultural Policies 19.640

Major historical changes in agricultural policies in the United States and comparisons with policies of foreign countries. Detailed study of policies relating to technical developments in agriculture. Conservation of natural resources, prices of farm products,

financing agriculture, production control, and low income farms. Critical review of issues relating to objectives and instruments of long-range agricultural policy. SPRING. Horton.

Economic Aspects of Atomic Energy Utilization 19.645

Systematic exploration of the economic implications of atomic energy with major emphasis on non-technical description of relevant basic scientific and technical data, review of the military and economic factors influencing the development of the industry, estimates of atomic power costs, analyses of the possible economic effects of a change in energy costs. Significance of atomic power for Point IV programs. SPRING. Loftus.

LABOR POLICIES

History of the Labor Movement In the United States 19.550

Development of the labor movement in the United States since the 18th century. Causes and results of organized efforts to regulate the conditions of work and the well-being of workers. Consideration of the effectiveness of local, national, and international organizations and of craft, industrial, and inclusive types. Examination in historical perspective of political and economic objectives and of the social problems raised by the labor movement. FALL. SUMMER. Brooks. Weisz.

History of the European Labor Movement 19.551

Development of the labor movement in Europe. Diversified and changing political and socio-economic setting. Comparative historical review of trade union ideologies, objectives, structure, and methods. Phases and forms of international trade union federations. SPRING. Weigert. Powell.

Labor and the Economic Order 19.552

Social and economic trends affecting the position of labor in modern society. Introduction to modern labor management and labor relations. Leading problems of the

determination of wages, hours, working conditions, and social security. Foundation of trade unionism. Social control of labor relations and of labor standards. FALL. Peck.

Current Labor Problems: Domestic 19.553

Union policies with respect to pensions, insurance, the guaranteed wage, incentive systems, profit sharing and formulas for adjusting wages to changes in living costs and productivity. Non-economic provisions in labor contracts, hours and conditions of work, overtime, seniority and supervision. Issues raised by the national defense program. Wage and other forms of stabilization. 1952 FALL AND ALTERNATE YEARS. Ross.

Current Labor Problems: International 19.554

Comparative survey of labor problems in a selected group of foreign countries, including France, Italy, Sweden, and the United Kingdom. Critical evaluation of the efforts for raising labor and social standards by the International Labor Organization and by other international bodies from the standpoint of economic theory and international economic relations. SPRING. Ross.

Labor and the Law 19.555

Problems of organized labor and adjustments made by the government toward their solution. Actions of legislatures, courts, and administrative agencies with respect to union organizations, collective bargaining, strikes, boycotts, pickets, mediation, arbitration, and responsibility of union to members, employers and the public. Special attention to current legal problems of organized labor. FALL. Fisher.

Labor-Government Relationships 19.556

Objectives and policies of the several federal administrative agencies. The Wagner Act. The Taft-Hartley Act. Functions of the National Labor Relations Board. Use of special federal commissions and boards in given industries and emergencies. Federal programs designed to raise wages and improve working conditions. FALL. Fisher.

Collective Bargaining 19.557

Collective versus individual bargaining. Theory, objectives, scope and effects. Local, regional and national collective bargaining. Relationship to conciliation, mediation, arbitration and fact finding boards in settling national emergency disputes. Procedures followed in conducting collective bargaining conferences. Negotiation and administration of contracts. FALL. Kovarik.

Settlement of Labor Disputes 19.558

Methods and techniques of resolving labor disputes on an advanced level. Theory and practice of collective bargaining, grievance negotiation, conciliation, mediation, arbitration, "fact-finding" boards, procedures for settling national emergency disputes. SPRING. Fisher.

Labor Economics 19.559

Analysis of labor market structures; market organization and wage structure; wage theories and movements; economic model of trade unionism; wage policies of trade unions; productivity of labor and real wages; labor's share in national income; factors affecting employment and unemployment. FALL. Ross.

Theory of Wages and Profits 19.650

History of wage and profit doctrines. The marginal productivity theory of wages. Alternative profit theories. Interactions between wages and profits and national income. Determinants of the level of employment. Role of wages and profits in cyclical change. Use of theory in collective bargaining. Criteria for determining wage rates. Application of theory to analysis of trade union objectives and policies. SUMMER. Naidel.

Structure of the Labor Market 19.651

Application of economic principles to the analysis of labor markets. Case studies of the demand for and supply of labor in the coal, steel, automobile and cotton textile industries. Statistical relationships among real and money earnings, hours of employment, and the volume of unemployment. Effects of unionism on market structures. SPRING. Fisher, Naidel.

Protective Labor Legislation 19.652

An economic analysis of federal and state legislation relating to wages, hours and working conditions. Emphasis will be laid on wage and hour laws, legislation affecting the labor supply, regulation of working conditions and legislation designed to mitigate risks of industrial employees. Economic and legal aspects will be stressed. FALL. Fisher.

TRANSPORTATION**Basic Problems in Transportation and Communication 19.560**

Role of transportation in the national economy. Principles governing mechanics, operation, traffic management, and Government regulation of all modes of transportation such as rail, highway, water, air, pipelines. Emphasis on current problems and on the competitive system. Principles of communication in mail, telegraph, telephone, radio and television service. FALL. Hamberger.

Rail Transportation 19.561

Railroad organization, administration, operation, traffic, and finance in the United States. Problems of consolidation and reorganization. Railroad labor. SPRING. Hamberger.

Highway Transportation 19.562

The highway system in the United States: construction, administration, and finance. Commercial motor transportation of passenger and freight: organization, operation of traffic, and finance. Economics of private automobile and truck operation. SUMMER. Hamberger.

Ocean Transportation 19.563

Economic characteristics, functions, and position of the world's ocean shipping, with particular reference to the United States. Development of the modern shipping industry. Current position and policy of the United States in world shipping and international shipping relations and organization. Security and national policy aspects of the industry. FALL. Perry.

Air Transportation 19.564

Operation, traffic, rates, and government action in air transportation. Problems in management of air-carriers. FALL. Robinson.

Western Hemisphere Transportation 19.565

Analysis of the transportation problems in the United States, Latin America, and Canada. Physical characteristics of the available means of transportation, traffic demand, and other principal issues relating to all modes of transportation in the pre-war, war and post-war periods. SUMMER. Homberger.

Traffic Management¹ 19.566

From viewpoint of commercial and industrial users of transportation facilities a study of the technical factors determining and controlling available rates and services. Analysis of purpose, construction, and application of rail, motor, water, and air carrier tariffs, classifications, and shipping documents; routing of traffic; liability and claims; rate bureau organization and procedure. FALL. Bernhard.

Traffic Management² 19.567

Analysis of the economic factors underlying rate-making by rail, motor, water, and air carriers with particular emphasis on the duty of carriers to establish reasonable and non-discriminatory rates, services, and practices. Problems arising out of the routing and mis-routing of freight. SPRING. Bernhard.

Interstate Commerce Law¹ 19.568

Review of the Interstate Commerce Act with emphasis upon regulatory problems illustrated by leading decisions of the courts and the Interstate Commerce Commission. SUMMER. Miller.

Interstate Commerce Law² 19.569

Statutory provisions of the I.C.C. Act relating to procedure and jurisdiction. I.C.C. rules of practice. Rules of evidence followed in administrative proceedings. I.C.C. Code of Ethics for practitioners. SUMMER. Miller.

Airports 19.570

Airport organization, management, operation, and traffic including airline operation, traffic control, and weather service. Questions of location and construction. Specific problems of both large and small airports. Field trip to the Washington National Airport; outstanding representatives of the Civil Aeronautics Administration and Weather Bureau and other specialists as guest speakers. 1954 SPRING. Homberger.

Trends and Problems in Transportation 19.571

An analytical study of vital issues facing the various modes of transportation in the current period. Emphasis on problems in traffic, operation, and regulation. Outstanding representatives of national transport organizations will discuss their current problems. *Prerequisite, Basic Problems in Transportation and Communication.* SPRING. Homberger.

Transportation Policies 19.670

An advanced course on government, carrier, and shipper policies related to all modes of transportation. Emphasis on the inter-relationship between transportation policies and those governing other economic factors. FALL. Homberger.

Arthur Godfrey Air Fellowships (No Credit)

Limited number of fellowships for laboratory practice to qualify transportation students for private pilot's license. Students apply to Professor L. M. Homberger.

INTERNATIONAL ECONOMICS**International Economic Relations 19.580**

Factors bearing on the economic position of the United States in the 1950s. Economic theories of international trade applied to the commercial policy of the United States. Special emphasis on the economic objectives of the United Nations and on the problems of formulating relevant national policies related to tariffs, reciprocal trade agreement programs, raw materials, cartels, foreign

loans, and other types of assistance. *Prerequisite, graduate work in economic theory.* FALL. Piquet.

Foreign Economic Policies: Problems Confronting the U. S. 19.581

Factors affecting the formulation and execution of economic foreign policies and programs and the forces that conflict with such policies. Role of Congress and of the Executive in the formulation of such policies. Special emphasis on the international economic and trade position of the United States and on the foreign assistance and underdeveloped areas programs. *Prerequisite, adequate background in economics.* SPRING. Piquet.

Economic Problems: Latin America 19.582

Survey of economic geography, population, and government organization of the area. Analysis of economic conditions and current problems with special emphasis on public finance, currency, foreign trade, balance of payments, foreign investments. Appraisal of prospects of economic advancement in individual countries. American economic interest in the area. FALL. Franck.

Economic Problems: Western Europe 19.583

Survey of economic geography, population, and government organization of the area. Analysis of economic conditions and current problems with special emphasis on public finance, currency, foreign trade, balance of payments, foreign investments. Appraisal of prospects of economic advancement in individual countries. American economic interest in the area. SPRING. Franck.

Economic Problems: Soviet Union 19.584

Survey of economic geography, population, and government organization of the area. Analysis of economic conditions and current problems with special emphasis on public finance, currency, foreign trade, balance of payments, foreign investments. Appraisal of prospects of economic advancement. American economic interests in the area. FALL. Franck.

Economic Problems: Middle East 19.585

Survey of economic geography, population, and government organization of the area. Analysis of economic conditions and current problems with special emphasis on public finance, currency, foreign trade, balance of payments, foreign investments. Appraisal of prospects of economic advancement in individual countries. American economic interest in the area. SPRING. Franck.

Economic Problems: Asia 19.586

Survey of economic geography, population, and government organization of the area. Analysis of economic conditions and current problems with special emphasis on public finance, currency, foreign trade, balance of payments, foreign investments. Appraisal of prospects of economic advancement in individual countries. American economic interest in the area. SPRING. Franck.

Structure and Operation of the Soviet Economy 19.587

The physical and theoretical background of the Soviet economy. The national planning structure and its evolution. The national economy subservient to the State. Stresses, strains and limitations as well as capabilities of the Soviet economy in operation. Economic potential of the Soviet Union. FALL. Ware. Eckstein.

Comparative Foreign Economic Policies 19.588

Emphasis on the foreign economic policies and problems of selected countries. Lectures by foreign nationals of the international economic position and foreign trade policies of principal trading countries. Classroom discussions on the significance of these policies to the United States. SPRING. Piquet.

Theory of International Trade 19.680

Theories of international trade, including analysis of gain from trade, relation of income to international balances, exchange rate stability, and alternative monetary standards. Basic policy issues: tariffs, quotas,

exchange control, bi-lateralism, commodity agreements. Institutions and program to promote orderly trade: International Monetary Fund, International Trade Organization, Trade Agreements Program. *Prerequisite, International Economics.* SPRING. Burk. Franck. Sommer.

Theory of International Finance 19.681

Balance of payments: purchasing power parity; foreign exchange market. Survey of modern theories concerning price levels, balance of trade, and capital movements. Exchange restrictions and regulations. Recent case histories from Bretton Woods; the International Bank Fund. *Prerequisite, International Economics and Money and Banking.* FALL. Merwin.

RESEARCH AND SPECIAL PROJECTS

Industrial Transportation and Traffic Management Institute (No Credit) 31.020

A full-time program of courses and field trips designed to give present and future junior executives, who have a basic understanding of traffic management, opportunity to improve and round out their knowledge and experience. FALL. Homberger.

Air Transportation Institute (No Credit) 31.021

A full-time program of courses and field trips designed for present and future junior executives in air transportation. Conducted with the cooperation of the Civil Aeronautics Administration and the Air Transport Association of America. FALL. Homberger.

Rail Transportation Institute (No Credit) 31.022

A full-time program of courses and field trips designed for present and prospective junior executives of rail transportation agencies. SPRING. Homberger.

Institute on Federal Taxes (No Credit) 31.023

Intensive professional program designed

for tax lawyers and tax accountants. Discussion of current tax issues on an advanced level. FALL. Mann.

Foreign Transportation Institute (No Credit) 31.025

A full-time program of courses and field trips designed for present and prospective junior executives in inland transportation agencies engaged in foreign transportation, ocean carriers, and agencies engaged in foreign trade. SPRING. Homberger.

Seminar in Economic Theory¹ 19.710

Advanced analysis of problems in the theory of value and distribution, welfare economics, and the theory of economic development. Discussion and supervised research. *Prerequisite, permission of instructor.* FALL. Ulmer.

Seminar in Economic Theory² 19.711

Advanced analysis of problems in the theory of employment and income, dynamic economics, and business fluctuations. Discussion and supervised research. *Prerequisite, permission of instructor.* SPRING. Ulmer.

Seminar in Fiscal Theory: Analysis of Selected Problems 19.730

Prerequisite, permission of instructor. FALL. Mann.

Seminar in Transportation 19.760

Prerequisite, permission of instructor. Homberger.

Thesis Seminar in Transportation 19.761

Homberger.

Seminar in International Finance 19.780

Current trends; operation of international financial agencies; recovery programs. *Prerequisite, permission of instructor.* FALL. Taylor.

Thesis Seminar in Economics 19.799

FALL, SPRING, SUMMER. Mann.

EDUCATION

SAMUEL E. BURR, JR., and CHARLES K. TRUEBLOOD (Acting)
Chairmen of the Departments

PROFESSORS: Ralph Bedell (Chairman at the School of Social Sciences and Public Affairs, on leave of absence February 1952-February 1953); Samuel E. Burr, Jr.; Ellis Weitzman.

LECTURERS: Campbell Beard; May P. Bradshaw; Gordon L. Lippitt; Willa Norris; Sarah C. Saunders.

BASIC COURSES

Introduction to College: Problems of Self-Discovery and Self-Direction (2) **21.100-101**

A fall-spring session course planned to help the student to achieve mature physical, social, intellectual, emotional and spiritual habit patterns and to deal with problems of adult life in the University, in the community, and in the contemporary world. In certain years, this course may be required of all first year students in the College of Arts and Sciences and of certain other new students who have not had a similar course elsewhere. In years when this course is not offered, orientation work will be conducted through a series of lectures and discussion periods which will be required but which will not carry credit. FALL. SPRING. Burr.

Introduction to Education 21.200

Survey and critical comparison of schools of thought and the nature, objects, and functions of American education. Attention to the significance of the purposes of the schools. *Prerequisite to all other courses in the department.* FALL. SUMMER. Burr.

Development of the Elementary School Child [4] 21.300

Study of the growth and development of the child, during the period of his enrollment in the Elementary School (Grades 1 through 6). Physical, mental, sociological, psychological, and moral development will

be given consideration. Also, the role of the school in guiding and influencing growth and development. FALL. Burr.

Adolescent Development (4) 21.301

Basic physiological, sociological, and psychological factors of adolescent growth and development. Emancipation from home, freedom and independence of choice, heterosexual interests, individual responsibility. Motivation and values in transition. FALL.

HISTORY AND PHILOSOPHY OF EDUCATION

History of Education in American Culture 21.310

European backgrounds of education in the United States. Distinctive patterns since colonial times. Social, economic, religious, scientific, moral, political, patriotic, legal, and intellectual forces that have influenced educational theory and practice. Study of *individual thinkers*. FALL. SUMMER. Saunders.

Philosophy of Education 21.410

An intensive, critical, and comparative course for advanced undergraduate students in the processes, purposes, and methods of education, with special reference to the organization of the school and its curriculum and their relationship to the social order in a democratic society. *Prerequisite, permission of the instructor.* SPRING. Burr.

The School and Modern Social Problems 21.517

Critical study and analyses of the social bases of the curriculum. Special reference to pupil needs. Current developments; methods of adapting the school to society. *Prerequisite, permission of the instructor.* SPRING. **Bedell.**

Philosophy of Education: Advanced 21.610

Intensive, critical, and comparative study of fundamental doctrines and principles underlying public and private education in American democracy. Special consideration to the purposes, processes, and methods of elementary and secondary education. Basic course for teachers and school administrators. FALL. **Bedell.**

Comparative Education: The Western World 21.615

A comprehensive survey and comparison of educational plans and procedures used in various countries. Backgrounds will be developed through a study of conditions in the past, but the emphasis of the course will be placed upon present day educational systems in the countries studied. Greatest attention will be directed to education in The United Kingdom, France, Germany, Canada, and some of the Latin American nations and in comparing their programs with those used in the United States. FALL or SPRING. **Burr.**

Comparative Education: The Orient 21.616

A course similar to 21.615, with emphasis upon the educational programs of the Far East, rather than the Western World. FALL or SPRING. **Burr.**

PSYCHOLOGY OF EDUCATION

Psychology of Education 21.320

Fundamental psychological problems encountered in education. Individual differences and their significance; group needs and group responses; nature and control of learning process; theories of motivation; de-

velopment of skills and knowledge; creative learning and critical thinking. *Prerequisite, General Psychology 57.200.* SPRING. SUMMER. **Saunders.**

Advanced Psychology of Education 21.520

Psychological principles and research methods basic to education. Consideration of motivation, attitudes, mental abilities, psychology of school subjects, transfer of training. Required of all students taking graduate degree programs in education. *Prerequisite, General Psychology 57.200 or permission of instructor.* FALL. **Bedell.**

SECONDARY EDUCATION

The Secondary School Curriculum (4) 21.340

Development, organization, and operation of the secondary school curriculum particularly as related to adolescent needs, the nature of the learning process, and the contemporary social scene. Differentiation in purposes of junior, 6-year, and senior high schools. Two hours of lecture and discussion and two hours of conference on either senior or junior high school curriculum each week. Required of all students planning to teach in secondary school. *Prerequisite, Adolescent Development 21.301.* SPRING. **Burr.**

Methods of Teaching in Secondary Schools: Seminar (2) 21.342-343

Intensive study of teaching methods in particular specialized subject-matter fields.

Teaching Art
Teaching Business Education
Teaching Driver Education
Teaching English and Speech
Teaching Mathematics
Teaching Modern Languages
Teaching Natural Sciences
Teaching Nursing Education
Teaching Physical Education
Teaching Social Sciences

Prerequisite, permission of the department chairman. FALL and SPRING. **Burr and specialists.**

Principles and Practice of Teaching in Secondary Schools (8) 21.440-441

Fall-spring session course with integrated program of lectures, discussions, observation, and practice teaching. Basic principles and theory in lecture periods; observation and practice teaching proceed concurrently. Required of all students planning to teach in secondary schools. *Prerequisite, The Secondary School Curriculum 21.340.* FALL. Burr and Bradshaw.

Curriculum Construction in Secondary Schools 21.640

Psychological, cultural, and educational bases of the secondary school curriculum. Practice in construction of curricular materials to meet modern educational problems. Course required of students preparing to be teachers or administrators. SPRING. Bedell.

Improvement of Instruction in the Secondary School 21.740

Critical survey of literature on supervision of instruction, improved teaching methods, and use of teaching aids. Special projects for teachers of various high school subjects. *Prerequisite, one course in secondary school curriculum or permission of instructor.* 1953 FALL AND ALTERNATE YEARS. Bedell.

HIGHER EDUCATION

Adult Education 21.555

Philosophies, methods, techniques, materials, agencies, and facilities for developing and administering programs of adult education. Emphasis on design of educational and training programs meeting needs of mature individuals. *Prerequisite, permission of the instructor.* 1952 FALL. Lippitt.

EDUCATIONAL ADMINISTRATION

Administrative Problems of the Modern School 21.560

Intensive practical consideration of internal organization of elementary and high schools. Emphasis on ways good teachers and administrators develop working rela-

tionships for maximum achievement of educational objectives. Basic course for all teachers. *Prerequisite, permission of the instructor.* FALL. Burr.

Internal School Administration 21.660

Organization and administration of education at the local level. Problems of superintendent or principal in relation to pupil personnel, teacher personnel, finance, public relations, professional problems. *Prerequisite, Philosophy of Education 21.610 or permission of instructor.* 1952 FALL AND ALTERNATE YEARS. Bedell.

COUNSELING AND GUIDANCE

Principles and Practices of Guidance 21.570

Principles and practices of guidance. Philosophy and methods in elementary and high schools. Organization and utilization of information related to the pupil. Use of information for improved education of pupil. Basic course for teachers and school administrators; beginning course for counselors. ALTERNATE FALL AND SUMMER. Bedell. Norris. Weitzman.

Occupational Information and Employment Outlook 21.573

Use of occupational information and employment trend information by teacher, school counselor, guidance worker, employment counselor, and mature individuals who wish to utilize information for own guidance. Basic course. *Prerequisite, Guidance in Education 21.570 or permission of instructor.* FALL. Goldstein.

Understanding the Individual 21.670

Development, organization, and analysis of data related to individual pupil. Technique of individual inventory. Critical analyses of research studies related to interpretation of data about individual. Required for students preparing to be counselors; useful to teachers and administrators.

Prerequisite, one course in psychological or educational measurement. SPRING. **Bedell.**

Techniques of Counseling School Pupils 21.770

Methods of counseling pupils on problems of personality development, educational and occupational choice, and other problems related to school progress. Required for students preparing to be school counselors. *Prerequisite, Understanding the Individual 21.670 or permission of the instructor.* 1953 FALL. **Bedell.**

Cooperative Laboratory in School Problems 21.569

Course extending invitation to school superintendents, school principals, directors of guidance, and members of boards of education, to attend without payment of fee. Topic presented by different educator at each session with critical analysis of current problem in secondary education. Discussion follows each lecture. Students taking course for credit must present critical papers on lecture presented together with critical bibliography. Course content different each year. Not offered in 1952-1953.

In-Service Training Project 21.691

Provision for teachers to engage in systematic study of problems within own schools under supervision of University faculty member. *Prerequisite, approval of department chairman.* **Staff.**

Seminar in Employment Counseling 21.770

Critical analysis and evaluation of problems of employment counselors. Special reference to employment services of publicly supported employment agencies, schools, and guidance centers. 1952 SPRING AND ALTERNATE YEARS. **Beard.**

Practicum on School Counseling (6) 21.771

Practical experience under planned supervision in counseling pupils. Time schedule adjusted to schools in which student is doing counseling. *Prerequisite, permission of instructor.* **Bedell. Weitzman.**

Thesis Seminar (6) 21.799

Bedell. Burr. Weitzman.

ENGLISH COMPOSITION AND LITERATURE

MERRITT C. BATCHELDER AND WALTER P. BOWMAN
Chairmen of the Departments

PROFESSORS: Merritt C. Batchelder; Walter P. Bowman; Hazel H. Feagans.
ASSOCIATE PROFESSORS: Charles M. Clark; Rudolph A. Von Abele.
ASSISTANT PROFESSOR: S. W. Lipsman.
INSTRUCTOR: John C. Clendenin.
LECTURERS: Virginia Angel; Marguerite Gilstrap; J. Douglas Knox; Harry P. Mileham.

WRITING

English Composition¹ 23.100

Study and practice in expository writing
FALL. SPRING. SUMMER. *Batchelder. Bowman. Clark. Clendenin. Feagans. Lipsman.*

English Composition² 23.101

Expository writing, including a research paper. FALL. SPRING. SUMMER. *Batchelder. Bowman. Clark. Clendenin. Feagans. Lipsman.*

Advanced Writing¹ 23.300

Training in writing, expository and/or narrative, through individual projects suited to the student's needs and interests. *Prerequisite, English Composition¹ and ², 23.100 and 23.101 with grade of C or better in each; or permission of the instructor.* FALL. SPRING. *Clendenin. Lipsman.*

Advanced Writing² 23.301

Style and structure in writing prose. Practice in writing short essays of various types, poetry, and fiction. Readings, discussions, and conferences. *Prerequisite, upperclass standing or permission of the instructor.* 1953 SPRING AND ALTERNATE YEARS. *Clendenin.*

Copy-Editing and Abstracting 23.306

Study of the mechanical details of preparation of copy for the printer, with special

emphasis on Government Printing Office style in capitalization, abbreviation, and punctuation; Government printing procedure, typography, printing techniques, structure of the book, the magazine, and the pamphlet. Practical exercises in copy-editing and abstracting. 1953 FALL AND ALTERNATE YEARS. *Angel.*

Proofreading and Indexing 23.307

Study of proofreader's responsibilities in correcting galley, page, and subsequent proofs; proofroom procedure; government printing practices. Practical exercises in the development of accuracy in reading and correcting proofs. Study of the theory of indexing and types of indexes. Actual compilation of an index, with review and criticism. *Prerequisite, permission of the Department.* Laboratory fee to all except fulltime undergraduate students, \$4.00. 1954 SPRING AND ALTERNATE YEARS. *Angel.*

Government Report Writing 23.400

Writing reports, memoranda, letters, administrative orders, and other forms of communication in government administration. Analysis of communications prepared in agencies to develop principles for planning each communication, determining its purpose, organizing material, and presenting ideas clearly, concisely, and forcefully. SPRING. *Gilstrap. Mileham.*

Creative Writing Workshop 23.401

Plot construction and the types of plots. Analysis of current stories. Lectures, discussions, and stories written under the supervision of the instructor. *Prerequisite, written permission of the instructor.* FALL. **Batchelder.**

Creative Writing Workshop 23.402

The completed story and problems of revision. Advanced work in scene and plot construction and characterization with attention to psychological and sociological elements. Study of selected short stories. Related studies of the traditional in story telling. Attention to markets. *Open to members of Creative Writing Workshop 23.401 and to others with written consent of the instructor.* SPRING. **Batchelder.**

Writing of Speeches 23.500

Methods of preparing effective speeches for delivery by oneself or by others. Emphasis on writing, research, source material, theme selection, audience analysis, timing, media and evaluation of speaker. Reading and listening assignments and actual preparation of various types of speeches. Intended primarily for persons considering careers in politics, government, business or professional management, public relations, and radio-television. FALL. **Knox.**

LITERATURE**Human Values in World Literature 23.220**

Study of the worth of the individual and his place in society as recorded in world literature of various periods: private and public virtues; desire for liberty and growth of the democratic tradition; reflection of the influence of economic, social, and political forces on man's thinking. FALL. SPRING. SUMMER. **Bowman. Lipsman. Von Abele.**

Issues in Modern Literature 23.221

Trends in modern European literature. Readings in poetry, fiction, essay, and drama on social, political, psychological, and economic issues. SPRING. SUMMER. **Bowman. Lipsman. Von Abele.**

Short Narrative¹ 23.320

Shorter forms of narrative, prose and verse in English literature from medieval times to the 18th century. Extensive readings, lectures, discussions, and a term paper. 1952 SUMMER AND ALTERNATE YEARS. **Batchelder.**

Short Narrative² 23.321

A survey of the shorter forms of prose narrative in English and American literature from the 18th century to the present. 1952 SUMMER AND ALTERNATE YEARS. **Clark.**

Masterpieces of European Literature 23.420

Reading and analysis of outstanding works of literature produced in Europe (excluding England) between 1770-1880. Included are works by Goethe, Constant, Stendhal, Balzac, Flaubert, Turgenev, Keller, and Dostoevski. SUMMER. **Von Abele.**

Modern European Fiction¹ 23.421

Introduction to problems and their solutions in the art of fiction as practised in our time, by concentration upon the work of its most significant representatives. *Prerequisite, one year of college literature.* FALL. **Von Abele.**

Modern European Fiction² 23.422

Emphasis on the work of James Joyce. *Prerequisite, Modern European Fiction¹ 23.421.* SPRING. **Von Abele.**

Modern Drama 23.436

Study of twenty-five European and American masterpieces of the modern theatre with special consideration of their value to students in the social sciences. FALL. **Bowman.**

ENGLISH LITERATURE**English Literature 23.230**

Survey of English literature, both poetry and prose, from the Old English period to the middle of the 18th century. Cultural and artistic significance of the literature of each period. Readings, discussions, lectures, and a term paper. *Required of all second-*

year students in the College of Arts and Sciences. *Prerequisite, English Composition 23.100 and 23.101.* FALL. SUMMER. **Batchelder. Clark.**

English Literature 23.231

English poetry and prose from the middle of the 18th century to the 20th century. Cultural and artistic significance of the literature of each period. Readings, discussions, lectures, and a term paper. *Required of all second year students in the College of Arts and Sciences. Prerequisite, English Literature 23.230.* SPRING. SUMMER. **Batchelder. Clark.**

Romantic Literature¹ 23.330

Chief poems and critical essays of Wordsworth and Coleridge together with readings in the work of their contemporaries and 18th century forerunners. Lectures, discussions, and a term paper. SUMMER 1953 AND ALTERNATE YEARS. 1952 FALL AND ALTERNATE YEARS. **Batchelder. Clark.**

Romantic Literature² 23.331

Chief poems of Byron, Shelley, and Keats, and of the work of the leading essayists of their era. Lectures, discussions, and a term paper. SUMMER 1953 AND ALTERNATE YEARS. 1953 SPRING AND ALTERNATE YEARS. **Batchelder. Clark.**

Victorian Prose 23.332

A study of the significant prose writings of Carlyle, Ruskin, Newman, Arnold, Pater, and others. Attention to their attitudes towards the materialism of the age and to social, political, economic, religious, aesthetic, and other issues. Lectures, discussions, and a term paper. 1952 FALL AND ALTERNATE YEARS. **Clark.**

Victorian Poetry 23.333

A study of the significant poems of Tennyson, Browning, Arnold, Rossetti, Swinburne, and others. Lectures, discussions, and a term paper. 1953 SPRING AND ALTERNATE YEARS. **Clark.**

The English Novel¹ 23.334

Growth of the English novel in the 18th century into a significant art form. Reading of selected novels by Defoe, Richardson, Fielding, Smollett, Sterne, and Walpole. Lectures, discussions, and a term paper. 1953 FALL AND ALTERNATE YEARS. **Clark.**

The English Novel² 23.335

The English novel during the 19th century. Reading of selected novels by Scott, Austen, Thackeray, Dickens, Eliot, and Hardy. Lectures, discussions, and a term paper. 1952 SPRING AND ALTERNATE YEARS. **Clark.**

Modern English Literature 23.336

Contemporary English literature from 1900 to the present. Emphasis upon writers whose work reflects the main currents of modern thought. 1953 FALL.

Chaucer¹ 23.430

The pronunciation and grammar of Middle English as an introduction to the reading of Chaucer's poetry. Chaucer as man and poet and his fourteenth century background. Readings in *The Canterbury Tales*. 1953 FALL AND ALTERNATE YEARS. **Batchelder.**

Chaucer² 23.431

Readings in *The Canterbury Tales*, *Troilus and Criseyde*, and some of the minor poems. *Prerequisite, Chaucer, 23.430.* 1952 SPRING AND ALTERNATE YEARS. **Batchelder.**

Shakespeare¹ 23.432

Shakespeare as poet and dramatist. An intensive study of *Macbeth*, *Henry IV—Part I*, and *Twelfth Night*. Lectures, discussions, collateral readings, and reports. 1952 FALL AND ALTERNATE YEARS. **Batchelder.**

Shakespeare² 23.433

An intensive study of *King Lear*, *Othello*, and *The Winter's Tale*. Lectures, discussions, collateral readings, and reports. 1953 SPRING AND ALTERNATE YEARS. **Batchelder.**

Milton 23.434

The artistry and significance of Milton. Readings in the major and minor poems with special attention to *Paradise Lost*. Some readings in his prose works. Lectures, discussions, and a term paper. 1953 FALL AND ALTERNATE YEARS. **Clendenin.**

Johnson 23.435

A study of Samuel Johnson as a leading man of letters in the 18th century, of his personality, and of his influence. Readings in Boswell's *Life of Johnson* and in the work of some of Johnson's contemporaries. Lectures, discussions, and a term paper. 1952 SPRING AND ALTERNATE YEARS. **Clendenin.**

AMERICAN LITERATURE**American Literature:
Colonial Period 23.360**

A survey of American literature from the colonial period to the end of the 18th century. Cultural and artistic significance of the literature. Readings, lectures, discussions, and a term paper. 1953 FALL AND ALTERNATE YEARS. **Clark.**

**American Literature:
19th Century 23.361**

A study of American literature from the end of the 18th to the beginning of the 20th

centuries. The relations between literature and society will be discussed and major writers studied in some detail. *Prerequisite, one year of literature.* 1952 FALL. SPRING. **Clark. Von Abele.**

**American Literature:
20th Century 23.362**

A study of American literature since 1900. The relations between literature and society will be discussed and major writers studied in some detail. *Prerequisite, American Literature: 19th Century, 23.361.* SPRING. **Von Abele.**

Novel in America 23.500

Shifts in the structure, technique, and contents of the novel between 1830 and 1930, as exemplified in works chosen for either their historical or aesthetic importance. *Prerequisite, a course in American literature.* FALL, 1952, AND ALTERNATE YEARS. **Von Abele.**

Poetry in America 23.501

Introduction to some of the major figures in American poetry, with special attention to the period since 1914. Emphasis on changes in poetic techniques not in the aesthetic theory behind the so-called "new poetry." *Prerequisite: a course in American literature.* SPRING, 1953, AND ALTERNATE YEARS. **Von Abele.**

GEOGRAPHY

NORMAN CARLS

Director of the Area in the

Department of Economics and Business Administration

PROFESSOR: Norman Carls.

ADJUNCT PROFESSOR: Lloyd D. Black.

ASSISTANT PROFESSOR: John S. Hewins.

LECTURERS: Louis O. Quam; Walter W. Ristow.

BASIC COURSES

Earth Resources 25.101

Basic study of natural resources, their interrelationships, and value to economic life. Origin and distribution of land forms. Natural vegetation and vegetation regions. Nature and distribution of soils. Economic minerals. Water resources. Conservation of natural resources. FALL. Carls.

Introduction to Economic Geography 25.102

World survey of production and consumption of major commodities. Study of differences in economic development and standards of living in major regions and countries of the world. Interpretation of differing economies in relation to regional resources, man-land ratios, and man's experience and skill in utilizing natural resources. SPRING. Hewins.

Technics of Geographic Field Research 25.519

Technics of geographic field study; recognition and plotting of natural and man-made features of the landscape. Use of topographic maps and aerial photographs in field research. Compilation of research maps based on original field observation. Training in technics of area analysis. Urban and rural area field experience. Not offered in 1952-1953.

ECONOMIC AND POLITICAL GEOGRAPHY

Economic Geography: Food and Agriculture 25.521

World survey of production, distribution, and consumption of agricultural commodities. Emphasis on world food problems. Analysis of agricultural resources, problems and potentials of major nations and world regions. International trade in agricultural products related to regional differences in resources, population, and economic development. FALL. Carls.

Economic Geography: Mineral Resources and Manufacturing 25.522

World survey of mineral resources and manufacturing industries. Distribution of major manufacturing industries studied in relationship to power resources, areas of raw material production, market areas, transportation facilities, labor, and governmental factors. Strategic and critical materials. SPRING. Black.

Geographic Factors in Business and Industry 25.523

Geographic factors in business and industrial problems. Applications of geographical techniques and methodology to representative problems in agriculture, mining, manufacturing, marketing, transportation, communications, international trade, and regional planning. Not offered in 1952-1953.

Economic and Political Geography of Underdeveloped Areas 25.525

Population, territorial framework, resources, and industries of areas included under Point 4. Plans, policies, and problems projected on geographical setting. FALL. Black.

World Political Geography 25.530

Major political problems of the world related to geographic backgrounds. World problem areas, current issues, and relationships of national states. SPRING. Carls.

REGIONAL GEOGRAPHY

Geography of American Regions 25.531

Resources and development of regions in United States and Canada. Interrelationships between distributional patterns of resources, population, and industrial, agricultural, and urban development. Examination of present patterns and problems in relation to historical sequence of settlement and resource use. Emphasis on major regional problems and current trends related to resource utilization. FALL. Carls.

Geography of Latin America 25.532

Analysis of relationships between man and resources in Latin America studied by individual countries and regions. Interrelationships between matters of population, economic and political life and natural resource base. Interpretation of present situation by examination of historical sequence of man's occupancy of land. SPRING. Carls.

Geography of Western Europe 25.540

Analysis of relationships between population, resources and economic and political life in the national states and regions of Western Europe including the British Isles, Scandinavia, Finland, Benelux, France, Germany, Austria, Italy, Greece, Portugal, and Spain. Current problems and programs. Not offered in 1952-1953.

Geography of the Soviet Union and Eastern Europe 25.550

Interpretation of the Union of Soviet Socialist Republics and Eastern Europe through study of the relationships between the distributional patterns of population, industrial and agricultural production, and the elements of the resource base. Study of changes in man's use of the land as influenced by politics and technology with emphasis on current trends in regional economies. Study of expansion and contraction of national territories with special attention to current problem areas. Not offered in 1952-1953.

Geography of Southern and Eastern Asia 25.560

Analysis of relationships between population and natural resources and economic and political life and problems in eastern and southern Asia including Japan, Korea, China, borderlands of inner Asia, India, Pakistan, Burma, Thailand, Indo-China, Indonesia, and the Philippines. SPRING. Quam.

CARTOGRAPHY

Applied Cartography 25.480

Fundamentals of military map compiling. Laboratory exercises designed to prepare students for positions in federal service as map compilers. Two hours of lecture and four hours of laboratory each week. FALL. Hewins.

Use and Evaluation of Maps 25.580

Study of maps and other cartographic materials as research tools and as graphic aids for the presentation and illustration of data. Fundamentals of map reading and interpretation. Examination and appraisal of physical, distributional, statistical, communications, economic, land use, and other special subject maps. Emphasis on the utilization of maps in various fields of governmental and commercial activity. SPRING. Ristow.

GEOLOGY*

JOHN S. HEWINS

*Acting Director of the Area in the Division of
Natural Sciences and Mathematics*

PROFESSOR: Bancroft W. Sitterly.

ASSISTANT PROFESSOR: John S. Hewins.

LECTURERS: Arthur L. Bowsher; George S. Switzer.

Earth in Space and Time 27.100

Man's place in the universe as defined by astronomical studies. The earth as a habitable body and as a planet. The solar system, stars, stellar and galactic systems. Geological processes and earth history. Cosmic processes and cosmic history. *Demonstrations; no laboratory.* SPRING. Sitterly.

Physical Geology [4] 27.110

Physical aspects of the earth with emphasis on the materials that constitute it and the geologic processes that operate upon it. Consideration of natural phenomena such as earthquakes, volcanoes, mountain building, and landscape sculpturing. Field trips and laboratory assignments at the National Museum. *3 hours of lecture, 4 hours of laboratory.* FALL. Hewins.

Historical Geology [4] 27.111

Earth history and the prehuman past, including both the physical history and the evolution of animals and plants from their earliest beginnings to their present form. Field trips and laboratory assignments at the National Museum. *Prerequisite, Physical Geology 27.110. 3 hours of lecture, 4 hours of laboratory.* SPRING. Hewins.

Invertebrate Paleontology [4] 27.200

Development of the invertebrate phyla as illustrated by fossils. Field trips and labora-

tory assignments at the National Museum. *Prerequisite, Historical Geology 27.111. 2 hours of lecture and 4 hours of laboratory.* FALL. Staff.

Stratigraphy [4] 27.203

Study of the distribution and variation of sedimentary rocks in time and space. Field trips and laboratory assignments at the National Museum. *Prerequisite, Invertebrate Paleontology 27.200. 2 hours of lecture, 4 hours of laboratory.* SPRING. Staff.

Economic Geology¹ 27.204

Systematic consideration of the principles of ore deposition. Review of the chief metallic ore deposits of the world. Lectures supplemented by field trips and observations at the National Museum. *Prerequisite, Historical Geology 27.111. 1952 FALL AND ALTERNATE YEARS.* Hewins.

Economic Geology² 27.205

Survey of mineral fields and non-metallic minerals. Review of their geologic and geographic distribution, their origin, and their economic importance. *Prerequisite, Economic Geology 27.204. 1953 SPRING AND ALTERNATE YEARS.* Hewins.

Mineralogy and Crystallography¹ [4] 27.300

Origin, occurrence, and basic structure of minerals. Consideration of their chemical

* A fee of \$5.00 is assessed from parttime students in each course involving laboratory work. The fee is not refundable.

properties and their crystallographic form and relationships. *Prerequisite, General Chemistry 15.111.* 2 hours of lecture and 4 hours of laboratory. 1952 FALL. **Switzer.**

Mineralogy and Crystallography² [4] **27.301**

Systematic identification of mineral species and practice in the identification of unknown minerals. *Prerequisite, Mineralogy and Crystallography 27.300.* 2 hours of lecture and 4 hours of laboratory. 1953 FALL AND ALTERNATE YEARS. **Switzer.**

Geomorphology¹ **27.302**

Genesis, morphology, and classification of land forms. *Prerequisite, Historical Geology 27.111.* 1953 FALL AND ALTERNATE YEARS. **Hewins.**

Geomorphology² **27.303**

World Survey of landforms and their relation to geology and geography. *Prerequisite, Geomorphology 27.302.* 1954 SPRING AND ALTERNATE YEARS. **Hewins.**

Structural Geology¹ **27.400**

Mechanics of rock deformation. *Prerequisite, Historical Geology 27.111 and Mineral-*

ogy and Crystallography 27.301. 1952 FALL AND ALTERNATE YEARS. **Switzer.**

Structural Geology² **27.401**

Consideration of the origin and development of some of the earth structures. *Prerequisite, Structural Geology 27.400.* 1954 SPRING AND ALTERNATE YEARS. **Switzer.**

Vertebrate Paleontology [4] **27.402**

Origin and development of the vertebrates as evidenced by fossil remains. Laboratory work supplemented by assignments at the National Museum. *Prerequisite, Historical Geology 27.111 and Comparative Vertebrate Anatomy 9.200.* 1952 FALL AND ALTERNATE YEARS.

Field Geology [8] **27.410**

Field problems in geology and the mechanics of field-mapping. Detailed topographic and geologic mapping of a specific area as a major problem assigned to each student. Complete geologic report on the area required before the course is satisfactorily completed. *Prerequisite, at least 8 hours of geology or permission of instructor. A course in Structural Geology 27.400 or 27.401 is recommended as part of this 8 hours, but not required.* SUMMER. **Hewins.**

HISTORY

ERNST POSNER AND DOROTHY D. GONDOS (Acting)

Chairmen of the Departments

PROFESSORS: Ernst Correll; Harold E. Davis; John R. Immer.

ADJUNCT PROFESSOR: Louis C. Hunter.

ASSOCIATE PROFESSORS: Donald Derby; Arthur A. Ekirch; Dorothy D. Gondos.

ASSISTANT PROFESSOR: David J. Brandenburg.

LECTURERS: Lester E. Edmond; Fritz T. Epstein; Meredith B. Colket, Jr.; Edith Lowry; Stanley Nehmer; William L. Neumann; Francis C. Prescott; Wayne D. Rasmussen; Herbert Spielmann.

BASIC COURSES

Basic History of European Civilization: 12th Century to 1789 29.100

European political, social, economic, and cultural development and European influence in world history from the 12th century to 1789. Transition from medieval culture patterns, growth of humanism, geographical discovery and colonization, the Reformation, nationalism, militarism, and the commercial revolution. Evaluation of European attempts to reconcile freedom and authority. FALL. SUMMER. Gondos.

Basic History of European Civilization: Since 1789 29.101

European influence in world history from the French Revolution to World War II. Revolutionary upheaval on the continent, industrial change, 19th-century nationalist movements, growth of world empires, Darwinian influence, cultural achievements, technology and the machine age, the contemporary revolutionary epoch, and the United Nations. *Prerequisite with Basic History of European Civilization 29.100 to all other history courses offered in the College of Arts and Sciences.* SPRING. SUMMER. Gondos.

Backgrounds of American Democracy¹ 29.102

Historical introduction to the social sciences. United States as a phase of Western Civilization. America's role in an expanding world; economic and social background; constitutional developments. FALL. SPRING. SUMMER. Brandenburg. Key. Neumann.

Backgrounds of American Democracy² 29.103

United States studied in relation to the problems of church and state, the growth and implications of modern ideas and technology, and the quest for world order. *Prerequisite, Backgrounds of American Democracy¹ 29.102.* FALL. SPRING. Key. Brandenburg.

Civilization in the Americas: National Origins 29.200

Origin and development of the United States, Canada, and the nations of Latin America to 1825. Western hemisphere considered as a unit with common historical background. Influence of the land, the Indian, the Negro, and European conquest and colonization. Movement for independence and the establishment of the nations. FALL. Davis.

Civilization in the Americas: National Development 29.201

Growth and development of the American nations since 1825. Problems of constitution making and political stability, adjustment of national boundaries, partisan and civil strife, economic, social, and cultural growth. Inter-American relations and the Pan American movement. The Americas in recent world affairs. SPRING. Davis.

History of American Business Leadership¹ 29.203

Development of American business enterprise and leadership viewed within the

framework of economic history from the Colonial period through the Civil War. Emphasis on individual leadership through selected case histories illustrating contributions of individuals and organizations to business development. Economic factors making possible the evolution of mass production and mass consumption. Course planned as an historical introduction to studies in business administration. FALL. SPRING. SUMMER. Immer, Edmond.

History of American Business Leadership² 29.204

Emergence of industrial America and large scale business organization. Adaptation of business management to problems caused by territorial expansion, technological change, mass production, new modes of transportation and communication, growth of labor movements, expanded governmental influence, war, and international economic leadership. Problems illustrated by selected case histories. SPRING. SUMMER. Nehmer, Edmond.

HISTORIOGRAPHY AND METHODS OF RESEARCH

Historical Research: Materials and Methods 29.500

Critical use of materials available for research in modern history. Techniques, methods of inquiry, evaluation of materials, and types and styles of historical writing. Attention to types of narrative and documentary sources. 1952 FALL AND ALTERNATE YEARS. Ekirch.

History of Historical Writing 29.501

The development of historiography from the period of the Renaissance. Trends in historical thinking, research, and writing. Discussion of representative historical works. Lectures and reports. Reading competence in one foreign language recommended. 1953 FALL AND ALTERNATE YEARS. Brandenburg.

Historical Writing in the United States 29.503

Analysis of historical writing in the United States from colonial times. Attention to prominent historians and trends in historical

thinking and interpretation. 1954 SPRING AND ALTERNATE YEARS. Ekirch.

Philosophy of History 29.504

Contemporary issues in the philosophy of history with special attention to problems of meaning and structure in the historical process; considered in the light of the historical roots of these issues and of their relationship to other aspects of philosophy of the times. 1953 SPRING AND ALTERNATE YEARS. Davis.

EUROPE AND ASIA

The Ancient World 29.310

Growth of civilization from the 4th and 3rd millenniums B.C. to the sack of Rome by Alaric in 410 A.D. Origin and nature of early Near-Eastern and Greek cultures. Study of the economic, social, political, military, and administrative history of the Roman World with special consideration of the Roman foundations of Europe. 1953 FALL. Lowry.

Medieval Europe 29.311

Inquiry into the formative period of European civilization. Transition of social life and political institutions from the Roman Empire to the age of European discovery and exploration. The barbarian invasions, the growth of the Church, Byzantine and Arab empires, feudalism, the Crusades, towns, the growth of states, development in intellectual life, the arts, and literature. 1954 SPRING. Lowry.

History of Europe: Renaissance, Reformation, Revolution 29.312

Interaction of politics, religion, economics, and intellectual inquiry in redefining man's ideas of nature, faith, reason, and government. Analysis of the nature, causes, and social consequences of the Reformation, the Catholic Counter-Reformation. Evolution of political ideologies and institutions. Expansion of commerce and the growth of empires. The French Revolution. 1953 SPRING. FALL. Brandenburg.

History of Europe: Congress of Vienna to World War I 29.313

Development of European nationalities from 1815 to 1914. Metternich reaction,

the rise of liberalism, the industrial revolution, and the social, cultural, and economic bases of nationalism and imperialism. 1954 SPRING. **Brandenburg. Lowry.**

History of England: Origins of Constitutional Government 29.320

Political, economic, social, and cultural life in England to 1689. Origins and development of constitutional government. Beginnings of empire. Correlation with pre-law and English literature. 1952 FALL. **Lowry.**

History of England: Development of Empire 29.321

England and the British Empire since 1689. Evolution of constitutional government, expansion of empire, the empire system since World War II. Correlation with pre-law and English literature. 1953. SPRING. **Lowry.**

Renaissance and Reformation 29.510

Political and social history of Europe from the 15th century to 1648. Transition of Europe from medieval to modern times; impact of explorations and the Reformation. Rise of capitalism. 1953 SPRING. **Derby.**

French Revolution and Napoleon 29.511

European history from 1789 to 1815. Significant aspects of the French Revolution, the Napoleonic Empire, and the Congress of Vienna. 1954 SPRING. **Derby.**

History of Europe: 1870 to 1914 29.512

Political, economic, and cultural effects of nationalism, imperialism, and industrialization in Europe. National developments and international alliances. Background of World War I. 1954 FALL. **Derby.**

Europe Since 1914 29.513

Political, social, and economic developments in Europe from the beginning of World War I through World War II. 1952 SUMMER AND FALL. **Brandenburg. Spielmann.**

Modern Revolutions 29.514

Comparative and analytical study of the theory of revolutionary movements and the form and structure of revolution as exemplified in the Puritan, American, French, and Russian revolutions. 1955 SUMMER. **Brandenburg.**

Expansion of Europe 29.515

Overseas expansion of European countries from the 15th through the 19th centuries. Influence of colonial and imperialistic expansion in shaping recent history. 1953 SUMMER. **Brandenburg.**

Economic History of Modern Europe 29.516

Formation of European economic society including the change from service-nexus to cash-nexus. Public credit and private finance institutions. World trade and credit economy; the shift from their European base. 1953 SPRING AND FALL.

France: Empire to Fourth Republic 29.525

The second Empire and its collapse in 1870. Formation of the Third Republic and its course to 1940. The Vichy interlude and the Fourth Republic. Reading knowledge of French recommended. 1954 SUMMER. **Brandenburg.**

History of Czarist Russia 29.530

Expansion of Russia from the Muscovite principality to the empire of the 20th century. Development of institutions and culture. 1952 FALL. **Epstein.**

History of the Far East 29.535

Historical backgrounds of the people of the Far East. Invasion of Western influence. Conflict of national interest. Economic and cultural systems. Ideologies. Asian consciousness and world organization. 1953 SPRING.

Intellectual History of Europe through the Enlightenment 29.610

A study of the ideas and outlooks that have influenced the development of western

history from the 13th century to the eve of the French Revolution. Transition from medieval to modern ways of thinking; humanism; intellectual contributions of the Reformation; rise of scientific thought; the nature and significance of the Enlightenment. Influence of the steady expansion and diffusion of knowledge. 1953 FALL AND ALTERNATE YEARS. **Derby.**

Intellectual History of Europe from the French Revolution 29.611

Cultural and intellectual currents from the end of the 18th century. Rise of the romantic movement; impact of revolutionary ideas, of the sciences, and of industrial technology. Ideological conceptions and confusions of the 19th and early 20th centuries. 1954 SPRING AND ALTERNATE YEARS. **Derby.**

UNITED STATES

History of the United States: Origins of Constitutional Government 29.440

A survey course for undergraduates, giving a comprehensive history of our country from colonial times to the Civil War. FALL. **Ekirch.**

History of the United States: Achievement of American Nationality 29.441

A survey course for undergraduates, covering the period from the Civil War to the present. SPRING. **Ekirch.**

American Biographies 29.442

Role of the leader in events. Study of the lives of personalities representative of the periods and problems of American history. Biographical research. Discussions and lectures on backgrounds of issues symbolized by individuals studied. SUMMER.

Colonial Origins of the United States 29.540

European backgrounds. Conflict of rival colonial systems. Political, economic, and social developments within the colonies. Causes and development of revolt. 1952 and 1953 SUMMER. **Ekirch. Gondos.**

Era of the American Revolution 29.541

Survey of colonial backgrounds. Origins and development of the American Revolution. Drafting and establishment of the Constitution of the United States. FALL. **Ekirch. Gondos.**

Development and Disruption of the Federal Union 29.542

The United States from the establishment of the national government in 1789 to secession in 1861. Social and political implications of the Jeffersonian and Jacksonian reform movements of the period. Growth of sectionalism. 1952 SUMMER. SPRING. **Ekirch. Gondos.**

Civil War and Reconstruction 29.543

Causes and course of the war; its impact on national life. Problems and effects of reconstruction. Industrialization and urbanization. Social and economic forces. FALL. **Ekirch. Gondos.**

The United States in the 20th Century 29.544

Economic, social, and political forces in the era of Theodore Roosevelt. Emergence of the United States as a world power. Reform from the Progressive movement through the New Deal. Role of the United States in two World Wars. SPRING. **Ekirch. Gondos.**

The South in United States History 29.545

Colonial times to the present. Factors making the South a distinctive part of the American nation. 1953 SUMMER. **Ekirch.**

The Frontier in United States History 29.546

Westward expansion from colonial times to the close of the 19th century. Analysis of Turner's frontier hypothesis in the light of recent critical literature. 1954 SUMMER. **Ekirch.**

History of United States Foreign Policy 29.547

Examination of the role of the United States in world affairs. Neutrality, freedom of the seas, Monroe Doctrine, most-favored-nation clause, diplomatic protection of lives and property abroad, citizenship, reciprocal trade, the Open Door, the Truman Doctrine, and the evolving system of the United Nations. FALL. Prescott.

American Economic History¹ 29.548

A review of American economic development from the colonial beginnings to the mid-nineteenth century. FALL. Hunter.

American Economic History² 29.549

A review of American economic development during the past one hundred years. SPRING. Hunter.

History of Industry in the United States 29.550

American industrial development from the end of the 18th century to the present. Principal reference to manufacturing and extractive industries. Structural and organizational aspects, location trends, technology, and distribution. 1952 SUMMER AND ALTERNATE YEARS. Hunter.

History of Agriculture in the United States 29.551

Geographical basis of American agriculture. Agrarian settlement and land policies. Agricultural revolution; its elements and significance. History and significance of farm implements and machinery. Agricultural development by regions and commodities. Transportation and marketing agencies promoting agriculture. Agriculture in recent times. 1953 SUMMER AND ALTERNATE YEARS. Rasmussen.

Intellectual History of the United States¹ 29.640

Analysis of ideas and attitudes of the American people and their leaders in terms of their social setting and historical influence, colonial times to Civil War. Ideas of Puritanism, the Enlightenment, Transcendentalism, Democracy, and Nationalism. FALL. Ekirch.

Intellectual History of the United States² 29.641

Dominant patterns of American thought from the Civil War to the present. Impact on American life of Darwinian evolution, industrialism, the vanishing frontier, progressive democracy, imperialism, and war. SPRING. Ekirch.

Concept of American Nationalism 29.642

Origin and development of nationalism with attention to manifest destiny, cultural nationalism, patriotism, and world-mindedness. 1953 SUMMER AND ALTERNATE YEARS. Ekirch.

United States Expansion Abroad 29.643

Political and economic expansion of the United States in key areas such as Latin America and the Pacific. Ideological impact of American civilization in all parts of the world. 1952 SUMMER AND ALTERNATE YEARS. Ekirch.

THE OTHER AMERICAS

Colonial Origins of Latin American Nations 29.570

Colonization by Spain, Portugal, and France. Causes and development of independence movements. 1953 FALL AND ALTERNATE YEARS. Davis.

Growth of Latin American Nationalism 29.571

History of Latin America from independence to the end of the 19th century. Constitutional sociological, economic, and ideological aspects of national development. 1954 SPRING AND ALTERNATE YEARS. Davis.

Latin America in the 20th Century 29.572

Movements of economic nationalism. Agrarian, electoral, and educational reform. Militarism. Cultural, ideological, and religious developments. 1953 SPRING. Davis.

Latin American Social and Political Thought 29.573

Spanish and Portuguese backgrounds. Ideas of the independence leaders. Mid-century liberalism and romanticism. Positivist thought. Contemporary trends. 1952 FALL AND ALTERNATE YEARS. Davis.

History of Canada 29.574

National development from colonial origins. Canada in the American Revolution and the War of 1812. Achievement of dominion status, westward expansion, economic development. Relations with the United States, the British Commonwealth of Nations, and the United Nations. 1954 SPRING. Davis.

RESEARCH AND SPECIAL PROJECTS**Institute of Genealogical Research (no credit) 31.030**

Scientific genealogical methods and their applications for historical and other purposes. Research assignments introduce students to use of materials in the National Archives and other repositories of genealogical materials. SUMMER. Colket.

Research Seminar in European History 29.710**Research Seminar in the History of the United States 29.740**

Experience in the use of original source materials. SPRING. Ekirch. Hunter.

Thesis Seminar in History 29.799

INTERNATIONAL RELATIONS AND ORGANIZATION

PITMAN B. POTTER
Chairman of the Department

PROFESSORS: Samuel E. Burr, Jr.; Harold E. Davis; Pitman B. Potter.

ADJUNCT PROFESSOR: Benjamin Bock.

ASSOCIATE PROFESSORS: Mary E. Bradshaw; Samuel L. Sharp.

PROFESSORIAL LECTURER: Eli E. Nobleman.

LECTURERS: Hans Aufricht; Donald M. Dozer; Lawrence D. Egbert; N. G. D. Joardar; Thorsten V. Kalijarvi; Lawrence Wadsworth, Jr.

INTERNATIONAL POLITICS

Introduction to World Politics

33.200

Bases and principal modalities of the relations among national states in the modern world community. Role of geography, national resources, population factors, cultural development, political experience, nationalism, and imperialism. Techniques and instruments of power politics. Growth of the institutions and attitudes of international cooperation. The conduct of foreign affairs. Place of regionalism in the world community. Responsibilities of the Great Powers. The United Nations. *Prerequisite to subsequent courses offered in the department.* FALL. SPRING. SUMMER. Bock. Kalijarvi. Wadsworth.

Problems in World Politics

33.300

Detailed study of selected problems in contemporary world politics. Case studies in political and economic geography, nationalism, imperialism, and international cooperation. FALL. SPRING. Sharp.

American Diplomacy

33.510

Basic principles of United States foreign policy. Constitutional processes and practices related to the formulation and conduct of foreign relations including the role of the President, department of state, foreign service, and congress. Influence of political parties and public opinion. Current developments in foreign policy. FALL. Bradshaw.

Problems in American Diplomacy

33.512

Detailed analysis of selected problems in American foreign policy. Backgrounds to current issues. Study of such problems as the German peace settlement, European economic recovery, international control of atomic energy, the north Atlantic pact, and the military assistance program. SPRING. Bradshaw.

Foreign Policies of the Great Powers

33.515

Great power policies since World War I. Attention to issues such as security, imperialism, international cooperation, and international organization. SUMMER. Bock.

International Relations Between the World Wars

33.516

Detailed study of the diplomacy of the period between the two World Wars with particular reference to the affairs of Europe. Topics discussed will include development and breakdown of the French System, the diplomacy of collective security, the diplomacy of Fascism and Nazism, the international position of the Soviet Union, the role of the United States in the affairs of Europe, and the diplomacy of the small powers. FALL. Sharp.

Diplomacy of World War II

33.517

SUMMER. Sharp.

AREA STUDIES**Central and Western Europe
International Relations 33.520**

Principal problems in the foreign relations of the nations of Central and Western Europe, including Great Britain but excluding the Scandinavian countries. Basic geographical, economic, and social factors. Current political problems. SPRING.

**Problems of the Middle Zone: Finland
to Greece 33.521**

The common problems, internal and external, facing the countries lying between Germany and Russia in their historical and contemporary setting, with special emphasis on past and current plans for the independence of the area, including federation or confederation. FALL. Sharp.

**Soviet Russia in World
Affairs 33.522**

Detailed discussion of the development of Russia's international position under the Soviet system; analysis of the aims and methods of Soviet diplomacy with particular emphasis on the record since the end of World War II. FALL. Sharp.

**Middle East International
Relations 33.525**

An analysis of modern political development in the Near East; the policies and interests of the Great Powers; a case study of the pending issues in their historical, political, and legal settings. SUMMER. Key.

India in World Politics 33.526

India as a nation; history of the independence movement; Gandhian philosophy and non-violence; attainment of Dominion status and its social, economic, and political consequences; minorities and princes; the Constitution of Republican India; political parties and organizations. Principal features of Indian foreign policy; relations with the British Commonwealth, Pakistan, Southeast Asia, China, the Middle East, the U.S.S.R., and the U.S.A. India and the United Nations. FALL. Joardar.

**Southeast Asia International
Relations 33.527**

Geographical, economic, and social forces in and among the nations of Southeast Asia. Political relations among these countries and with the outside world. Current problems. SPRING. Joardar.

**Far East International
Relations 33.528**

Historical background and geographic setting. Penetration by the western powers; colonialism and imperialism. Interests and politics of the great powers. Rise of nationalism. Effect of two world wars on the people of the Far East. Influence of the League of Nations and the United Nations on Far East developments. Asian regionalism. Contemporary problems. SPRING. Bock.

**Inter-American International
Relations 33.529**

A survey of the historical background and recent development of United States relations with Latin American countries and of the diplomatic relations of the American states. 1953 FALL AND ALTERNATE YEARS. Davis.

**INTERNATIONAL ORGANIZATION
AND ADMINISTRATION****International Organization and
Administration 33.550**

Nature, bases, forms, and functions of international organization. Diplomacy, treaties, international conferences, international legislation, international administration, and adjudication. International federation, international government. Problems of international peace and social progress. Developments from the League of Nations to the United Nations. FALL. SPRING. Potter.

**United Nations Organization
and Functions 33.551**

Historical background of the charter. Origin and functions of the principal organs. Sovereign equality of members. Obligations of members in relation to other agreements and regional systems. International

cooperation in political, economic, social, cultural, and humanitarian matters. Relationship to specialized agencies. FALL. Bradshaw.

United Nations Political and Security Problems 33.552

Major political and security problems before the security council and the general assembly. Methods and machinery available for handling critical issues within the framework of the Charter. The policies of the great powers in relation to United Nations action. SPRING. Bradshaw.

United Nations Economic and Social Problems 33.553

Examination of nature, scope, and achievements of economic and social activities of the United Nations. Organization and operation of economic and social Council. Role of the general assembly. SUMMER. Bradshaw.

The Inter-American System 33.554

Organization and operation of the Organization of American States and affiliated organizations. The Inter-American peace and security system. Relationship of the system to the United Nations. 1952 FALL AND ALTERNATE YEARS. Davis.

The United States and International Organization 33.555

Extent and character of United States participation in international organizations. Governmental, administrative, and budgetary organization for carrying out obligations of membership. Internal operations of international agencies with respect to fundamental document, personnel, administrative procedures, and budget. 1952 FALL AND ALTERNATE YEARS. Nobleman.

International Administration 33.556

Nature of international administration. Historical development. Membership and organization of international administrative unions. Functions, procedures, finances, personnel, seat, and plant. Relations of agencies with member governments, non-member states and organizations, and the public. 1953 SPRING. Potter.

INTERNATIONAL LAW

International Law and Legislation [6] 33.560, 561

A two-session course. Nature, origins, and development of international law. Formation and forms of the law; codification. Substance of the law: parties, sovereignty, jurisdiction, intercourse; enforcement, including war and neutrality. War crimes. Newer forms of international legislation. FALL. SPRING. Egbert.

Law of International Trade and Finance 33.562

Major issues of national and international law related to international trade and finance. Impact of recent legal concepts on traditional thought and practice. Bipartite and multipartite agreements; statutes; cases. Organizational developments including IMF, IBRD, and ITO. *Prerequisite, International Organization 33.550 or the equivalent.* 1953 FALL AND ALTERNATE YEARS. Aufricht.

International Regulation of Aviation 33.564

Historical evolution of aviation. Analysis of regulatory problems. International integration of regulation. Present statutes. Prospects for more effective consolidation. 1954 SPRING AND ALTERNATE YEARS. Aufricht.

International Maritime Law 33.568

Origins and development of maritime law. Jurisdiction over parts of the sea. Regulation of navigation, shipping, and admiralty and maritime jurisdiction. Principles of the law applicable to the construction, ownership, operation documentation, and liability of ships. Not offered in 1952-1953.

RESEARCH AND SPECIAL PROJECTS

Institute on the Position of the United States in World Affairs [6] 33.540

Intensive six-week session meeting five days a week with a study visit to United Nations. Lectures by experts on University

faculty and from national, international, and private agencies dealing systematically with issues of world politics in the forefront of public attention. Discussion. Institute especially arranged for secondary school and college teachers dealing with world affairs. SUMMER. Burr. Potter. Specialists.

**Seminar in Contemporary
International Relations 33.700**

Individual projects and group discussion of basic problems of contemporary international relations, with particular emphasis of the impact of the present polarization of power on traditional ideas and techniques in foreign policy. SPRING. Sharp.

Latin American Area Seminar 33.720

General studies and directed research on the peoples, institutions, economic problems, and historical backgrounds of the countries of Latin America. Reading knowledge of Spanish required. FALL. Dozer.

**Seminar on Soviet Foreign
Policy 33.721**

For advanced graduate students interested in research projects in the field of Soviet foreign policy. SUMMER. Sharp.

**Seminar in International Relations
and Organization 33.750**

Selected problems in international political relations and international organization exclusive of law and administration. SPRING. Potter.

**Seminar in International Law and
Administration 33.760**

Directed research, reports, and discussion on selected problems in international law, including international constitutional, administrative, and criminal law, and in international legislation. Problems in international administration. FALL. Potter.

Thesis Seminar 33.799

JOURNALISM

H. D. CRAWFORD

Director of the Area in the Department of Communication

ADJUNCT PROFESSOR: James R. Mock.

ASSISTANT PROFESSOR: H. D. Crawford.

PROFESSORIAL LECTURER: Francis P. Douglas.

LECTURERS: Frank L. Dennis; C. Erland Ericson;
Paul R. Hill; Thomas Winship.

Introduction to Journalism 35.300

Fundamentals of journalism. Study of modern news, feature, editorial, column, critical, advertising, and publicity writing in their practical application to today's newspapers, magazines, and trade publications. Consideration of career opportunities and requirements. *Prerequisite for all advanced courses in journalism.* FALL. SPRING. SUMMER. Crawford, Mock.

News Reporting 35.400

Basic instruction in news writing. Types of news stories. Emphasis on practical work conditions similar to those encountered in newsrooms. Professional procedures. FALL. Douglas.

Editing: Newspapers and Periodicals 35.500

Practical experience to develop editorial judgment and skills in processing material for publication. Study of problems and practices in making assignments, editing copy, handling departments for newspapers, magazines, and specialized periodicals, and carrying out news and editorial policy. Examination of procedures of specific publications. SPRING. Winship.

Editorial Interpretation 35.501

Practice in writing editorials on a wide range of current subjects. Study of newspaper, trade publication, and magazine editorial policies and problems. Analysis of

editorial columns and interpretative reviews. Publication outlets sought for student editorials, columns, and reviews. FALL. Crawford.

Small Newspapers 35.502

Study and discussion of special problems of community and organization dailies and weeklies, including non-metropolitan and suburban newspapers. Consideration of geographic, social, and economic factors influencing reader interest, business conditions, and editorial problems. Special investigations and field trips. SPRING. Crawford.

News and Feature Photography 35.503

Study of photographic requirements and techniques of newspapers, magazines, syndicates, and trade publications. Training in professional planning, taking, and editing of news and feature photographs. SPRING. Ericson.

News Reporting: Advanced 35.504

Problems of specialized reporting and Washington and foreign news correspondence studied with students covering assignments in these fields. Students will carry on individual research projects, including consultation with prominent reporters in specialized fields and in Washington bureaus of United States and foreign newspapers and news agencies. *Prerequisite, News Reporting 35.400.* SPRING. Douglas.

Feature Article Writing 35.505

Practice in writing features and special articles for newspapers, magazines, and business publications. Study of interview, utility, personal experience, personality sketch, and narrative articles. Training in popularization of government reports. Study of markets and slanting techniques. Preparation, discussion, and revision of articles to be submitted for publication. FALL. SPRING. SUMMER. **Crawford. Hill.**

**Feature Article Writing:
Advanced 35.506**

Preparation, discussion, and revision of articles to be submitted for actual publication by magazines, trade publications, syn-

dicates, and feature sections of Sunday newspapers. Consideration of problems in the planning and writing of non-fiction books, with special attention to author-publisher relationships. *Prerequisite, Feature Article Writing 35.505.* FALL. SPRING. **Crawford.**

Freedom of Information 35.507

Investigation of problems of access and barriers to information at local, state, national, and international levels of government. Study of information access rights and responsibilities of the press and other communication media. Survey of freedom of information studies by various journalistic organizations. Individual research projects. FALL. **Dennis.**

LANGUAGES

RUBERTA OLDS

Chairman of the Department

PROFESSORS: Ernst Correll; John G. Frank.

ASSOCIATE PROFESSOR: Ruberta M. Olds.

ASSISTANT PROFESSOR: Kathryn D. Wyatt.

INSTRUCTOR: Zoe Wythe.

LECTURER: Natalie Boes.

ENGLISH

* English for Foreign Students 37.110

English taught as a foreign language. Instructional method identical with introductory 100-level modern foreign language courses. FALL. SUMMER. Wythe.

* English for Foreign Students 37.111

Sequence course preparing student studying English as a foreign language to enter first year basal English courses. *Prerequisite, English for Foreign Students 37.110 or permission of the instructor.* SPRING. SUMMER. Wythe.

FRENCH

* French 37.120

Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic French. Inductive presentation of grammar and syntax. Dictation. Tri-sensory practice in language laboratory. Tape recordings. FALL. Wyatt.

* French 37.121

A continuation of French 37.120. Tri-sensory practice in the language laboratory. Dictation, tape recordings, reading of idiomatic French. SPRING. Wyatt.

* In all courses in this department marked with an asterisk a laboratory fee of \$5.00 a course will be charged to all except fulltime undergraduate students. The fee is not refundable.

* Intermediate French 37.220

Hearing, understanding, and speaking idiomatic French with stress on reading. Tri-sensory practice in the language laboratory. Dictation; tape recordings. Readings in 19th and 20th century French literature. *Prerequisite, one year college French, two years secondary school French, or qualifying examination.* FALL. Wythe.

* Intermediate French 37.221

Continuation of French 37.220. Completes two-year language requirement. SPRING. Wythe.

LITERATURE

Courses conducted in French; speaking fluency a prerequisite

French Literature 37.322

Survey of French literature from its beginning to the romantic period. Reading of texts from La Chanson de Roland to Voltaire and Rousseau. *Prerequisite, Intermediate French 37.220 and 37.221 or qualifying examination.* FALL. Wythe.

French Literature 37.323

Survey of French literature from romanticism to contemporary period. Readings from Chateaubriand to André Gide. Emphasis on spiritual and intellectual heritage of each succeeding literary generation. *Prerequisite, French Literature 37.322 or qualifying examination.* SPRING. Wythe.

Classical French Literature 37.324

Emergence and growth of the classical ideal during the reign of Louis XIV. Study centered on 17th century writers other than dramatists: Descartes, Pascal, Boileau, Bossuet, La Fontaine, La Rochefoucauld, and Fénelon. *Prerequisite, French Literature 37.323 or qualifying examination.* 1953 FALL AND ALTERNATE YEARS. Wyatt.

Classical French Drama 37.325

The three great 17th century French dramatists: Corneille, Racine, and Molière. Study of humanistic values expressed in their masterpieces. *Prerequisite, Classical French Literature 37.324 or qualifying examinations.* 1954 SPRING AND ALTERNATE YEARS. Wyatt.

The French Renaissance 37.420

Renaissance and humanistic movement as expressed in France in the 16th century. Rabelais, the Pleiade, Ronsard, and Montaigne. *Prerequisite, permission of the instructor.* 1952 FALL AND ALTERNATE YEARS. Wyatt.

18th Century France: Men and Ideas 37.421

Fundamental attitudes and ideas of *Age of Enlightenment* as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau. *Prerequisite, permission of the instructor.* 1954 SPRING AND ALTERNATE YEARS. Wyatt.

French Romanticism 37.422

Development and flowering of romantic movement in early 19th century French literature. Analysis of sentiments of romanticists. *Prerequisite, permission of the instructor.* 1953 FALL AND ALTERNATE YEARS. Wyatt.

French Realism 37.423

19th century French literature from decline of romanticism to turn of century. Attention to various literary generations and significant periods of literary expression known as realism, naturalism, and symbolism. *Prerequisite, permission of the instructor.* 1954 SPRING AND ALTERNATE YEARS. Wyatt.

Contemporary French Theater 37.520

Critical study of representative plays including Paul Claudel, Jules Romains, Jean Jacques Bernard, Jean Giraudoux, Henri de Montherlant, and Jean Paul Sartre. *Prerequisite, permission of instructor.* 1952 SUMMER. Wyatt.

Contemporary French Novel 37.521

Critical study of major trends in French novel since 1919. Mauriac, Duhamel, Gide, Malraux, Giraudoux, du Gard, Fournier, and Proust. *Prerequisite, permission of the instructor.* SUMMER. Wyatt.

Advanced French Grammar and Conversation 37.522

Oral and written practice in linguistic facts and stylistics. Emphasis on oral fluency and written accuracy of idiomatic French. Extensive readings and discussion. Required course for students concentrating in French. *Prerequisite, permission of the instructor.* 1952 FALL AND ALTERNATE YEARS. Wyatt.

Advanced French Grammar and Conversation 37.523

Continuation of 37.522. *Prerequisite, permission of the instructor.* 1953 SPRING AND ALTERNATE YEARS. Wyatt.

GERMAN*** German 37.130**

Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic German. Inductive presentation of grammar and syntax. Dictation. Tri-sensory practice in language laboratory. Tape recordings. FALL. Frank.

*** German 37.131**

A continuation of German 37.130. Tri-sensory practice in the language laboratory. Dictation, tape recordings, reading of idiomatic German. SPRING. Frank.

*** Intermediate German 37.230**

Hearing, understanding, and speaking idiomatic German with stress on reading. Tri-sensory practice in the language laboratory. Dictation, tape recordings. Readings in Ger-

man literature. *Prerequisites, one year college German, two years secondary school German, or qualifying examination.* FALL. Frank.

*** Intermediate German 37.231**

Continuation of German 37.230. Completes two-year language requirement. SPRING. Frank.

LITERATURE

Courses conducted in German; speaking fluency a prerequisite

German Literature: 8th to 19th Century 37.322

Survey of German literature from old high German period through the classical period to 19th century romanticism. *Prerequisites, Intermediate German 37.230 and 37.231 or qualifying examination.* FALL. Frank.

German Literature: 1795-1910 37.333

Movements in German thought in 19th century. Selected writings. *Prerequisites, German 37.322 or qualifying examination.* SPRING. Frank.

Scientific German¹ 37.341

Reading of selected scientific German texts. *Prerequisite, permission of instructor.* SUMMER. Frank.

Scientific German² 37.342

Continuation of German 37.341. SUMMER. Frank.

German Classical Period 37.430

German literature from rationalism and the English influence to transition from classicism to romanticism. Attention to Lessing, Herder, Goethe, Schiller, Kant, and Fichte. *Prerequisite, permission of the instructor.* 1953 FALL AND ALTERNATE YEARS. Frank.

Lessing 37.431

Lessing as symbol of 18th century movements in German thought. Revolt against artificial classicism. Rational criticism of

literature and art. Foundations of modern German drama. Preparation for work of Kant, nature of "Aufklärung," humanistic ideals. Extensive reading of works of Lessing and of collateral works of the age. 1953 SPRING AND ALTERNATE YEARS. Frank.

Goethe 37.530

Intensive study of life, times, and representative works of Goethe. Reading of Faust. *Prerequisite, permission of instructor.* 1952 FALL AND ALTERNATE YEARS. Frank.

Schiller 37.531

Intensive study of life, times, and representative works of Schiller. His ideas, psychology as expressed in drama, and moral and artistic standards. *Prerequisite, permission of instructor.* 1953 SPRING AND ALTERNATE YEARS. Frank.

Advanced German Grammar and Conversation 37.532

Oral and written practice in linguistic facts and stylistics. Emphasis on oral fluency and written accuracy of idiomatic German. Extensive readings and discussion. Required course for students concentrating in German. *Prerequisite, permission of instructor.* 1953 FALL AND ALTERNATE YEARS. Frank.

RUSSIAN

*** Russian 37.140**

Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic Russian. Inductive presentation of grammar and syntax. Dictation. Language Laboratory. FALL. Boes.

*** Russian 37.141**

Continuation of Russian 37.140. Increasing attention to reading. Language laboratory. SPRING. Boes.

*** Intermediate Russian 37.240**

Grammar and vocabulary. Oral discussions based on readings in simple Russian literature. Language laboratory. Weekly hour listening to recorded passages selected

from the texts. *Prerequisite, one year college Russian, two years of secondary school Russian, or qualifying examination.* FALL. Boes.

*** Intermediate Russian 37.241**

Continuation of *Intermediate Russian* 37.-240 which is a prerequisite to this course. SPRING. Boes.

SPANISH

*** Spanish 37.150**

Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic Spanish. Inductive presentation of grammar and syntax. Dictation. Tri-sensory practice in language laboratory. Tape recordings. FALL. Olds and Wythe.

*** Spanish 37.151**

A continuation of Spanish 37.150. Tri-sensory practice in the language laboratory. Dictation, tape recordings, reading of idiomatic Spanish. SPRING. Olds and Wythe.

*** Intermediate Spanish 37.250**

Hearing, understanding, and speaking idiomatic Spanish with stress on reading. Tri-sensory practice in the language laboratory. Dictation, tape recordings. Readings in 19th and 20th century Spanish literature. Prerequisites, one year college Spanish, two years secondary school Spanish, or qualifying examination. SPRING. Wythe

*** Intermediate Spanish 37.251**

Continuation of Spanish 37.250. Completes two-year language requirement. SPRING. Wythe.

Reading in Spanish 37.350

Syntactical, grammatical, and vocabulary emphasis based on proficiency acquired in basal courses. Discussion, dictation. Conversations based on readings of modern Spanish prose. Weekly hour listening to recorded passages selected from the text. *Prerequisite, Intermediate Spanish 37.250 and 37.251, four years of secondary school*

Spanish, or qualifying examination. FALL. Olds.

Reading in Spanish 37.351

Continuation of *Advanced Spanish* 37.350. Advanced reading, composition, and discussion. *Prerequisite, Reading in Spanish* 37.-350. SPRING. Olds.

LITERATURE

Courses conducted in Spanish; speaking fluency a prerequisite

Spanish Literature 37.352

Survey of Spanish literature from epic to romantic period. Readings from *Poema del Cid* through *Siglo de Oro*. *Prerequisite, Intermediate Spanish* 37.250, or qualifying examination. FALL. Olds.

Spanish Literature 37.353

Survey of Spanish literature from romanticism to contemporary period. Reading of texts from *El Duque de Rivas* and *Espronceda* to *Jiménez*. Emphasis on artistic and cultural standards of each period. *Prerequisite, Spanish Literature* 37.352 or qualifying examination. SPRING. Olds.

Novel of the Golden Age 37.354

Intensive study of Cervantes and his works with emphasis on *Don Quixote*. *Prerequisite, permission of instructor.* 1952 FALL AND ALTERNATE YEARS. Olds.

Drama of the Golden Age 37.355

Intensive study of the works of *Lopede Vega*, *Tirso de Molina*, *Ruiz de Alarcón*, and *Calderon de la Barca*. 1953 SPRING AND ALTERNATE YEARS. Olds.

Modern Spanish Drama 37.450

Critical study of representative plays by *Echegaray*, *Benavente*, *Quintero Brothers*, *Marquina*, *Martinez Sierra*, and *Garcia Lorca*. *Prerequisite, permission of the instructor.* 1953 FALL AND ALTERNATE YEARS. Olds.

19th Century Regional Novel 37.451

Fundamental attitudes and ideas of regional novelists. Valera, Alarcón, Pereda, Galdós, Valdés, and Ibáñez. *Prerequisite, permission of the instructor.* 1953 SPRING AND ALTERNATE YEARS. **Olds.**

Spanish-American Literature: 1519-1888 37.550

Development of Spanish American literature from Chronicles to period of modernism. Consideration of historical and social factors. Epic of Araucana to Mitre. *Prerequisite, permission of instructor.* 1953 FALL AND ALTERNATE YEARS. **Olds.**

Spanish-American Literature 37.551

Modernism to contemporary period. Nagera through Mistral. *Prerequisite, permission of the instructor.* 1954 SPRING AND ALTERNATE YEARS. **Olds.**

Advanced Spanish Grammar and Conversation 37.552

Oral and written practice in linguistic facts and stylistics. Emphasis on oral fluency and written accuracy of idiomatic Spanish. Extensive readings and discussion. Required course for students concentrating in Spanish. *Prerequisite, permission of instructor.* FALL. **Wythe.**

Advanced Spanish Grammar and Conversation 37.553

Continuation of Spanish 37.552. *Prerequisite, permission of the instructor.* SPRING. **Wythe.**

Contemporary Spanish Literature 37.555

Generation of 1898 and contemporary poets, novelists, dramatists, and critics. *Prerequisite, permission of instructor.* FALL 1954. **Olds.**

Language Conferences 37.010

Individual tutorial conferences to serve candidates for higher degrees preparing for tool requirements in modern languages. Hours to be arranged. **Correll and specialists.**

AMERICAN LANGUAGE CENTER

In addition to the courses English for Foreign Students 37.110 and 37.111, the University offers fulltime intensive instruction in English and orientation for foreign students at the American Language Center. The charge for this instruction is \$30.00 a week and grants-in-aid equal to half this tuition are available to recommended students. For further information apply to the Director, American Language Center, 1729 F Street, Northwest.

LAW

DAVID R. BOOKSTAYER

Dean of the Washington College of Law

PROFESSORS: David R. Bookstaver; Edwin A. Mooers; John S. Myers.

ADJUNCT PROFESSOR: Barnard T. Welsh.

ASSOCIATE PROFESSOR: Herbert Fuchs.

ASSISTANT PROFESSOR: Roy P. Franchino.

PROFESSORIAL LECTURERS: Harry J. Breithaupt; David G. Bress; Lawrence S. Lesser; Rebecca L. Notz; Karl Stecher.

LECTURERS: Ross D. Netherton; Gerald D. O'Brien; Daniel Walker; Adam Yarmolinsky.

FIRST-YEAR COURSES

Agency [2] 37.500

Distinction between agent, servant, and independent contractor; creation, incidents, and termination of the agency relation; apparent authority, ratification, undisclosed principal, irrevocable agencies. FALL. Franchino.

Constitutional Law [4] 37.501

Judicial interpretation and enforcement of written constitutions; the nature, theory, and effect of judicial review; the theory of the separation of powers; the Federal system; the powers of the national government, including the power to regulate interstate and foreign commerce; the Bill of Rights; the 14th Amendment; due process and equal protection; privileges and immunities of citizens of the United States; the power of eminent domain; retroactive and *ex post facto* laws; the contract clause; constitutional revision and amendment. SPRING. Franchino.

Contracts [6] 37.502

Principles of contracts, including the formation of simple contracts; sealed contracts; offer and acceptance; effect of misrepresentation and mistake; the doctrine of consideration; third-party beneficiaries; contracts within the Statute of Frauds; assignment of contracts; joint and joint and several contracts; performance and breach of contracts; compromise agreements and discharge of contracts; illegal contracts. FALL. Mooers.

Criminal Law 37.503

Criminal law in general; the mental element; capacity to commit crimes; the nature of selected common law and statutory felonies and misdemeanors; selected problems in criminal procedure. SPRING. Myers. Welsh.

Legal Bibliography [1] 37.504

Analysis and use of legal codes, digests, encyclopedias, citators, and search tools through assignment of individual problems involving research in the more important sets of books. FALL. Notz.

Procedure [4] 37.505

Study of cases in common law pleading covering forms of action, joinder of parties and causes, demurrers and motions, dilatory pleadings, pleas, replication; setoff and counterclaim; extraordinary legal remedies; declaratory judgments; representative suits; cases in equity pleading; the Code ideals in pleading and procedure; jurisdiction and venue; proceedings after verdict, including motions for arrest of judgment, *non obstante*, the doctrine of *aider by verdict* and model Code provisions with respect thereto. SPRING. Mooers.

Property 1 37.506

Possession, including acquisition, actual, constructive, unconscious, involuntary, and adverse possession. Bailments. Liens and pledges. Gifts. Accession and confusion. Problems related to *bona fide* purchasers of personal property. Estates in land: freehold

and non-freehold possessory estates, marital estates, concurrent estates. Landlord and tenant. SPRING. Bookstaver.

Torts [4] 37.507

Important civil wrongs not arising out of contract; intentional and negligent injuries to persons, to real and personal property, and to intangibles. FALL. Myers. Bress.

ADVANCED COURSES

Administrative Law 37.600

Constitutional background for administrative agencies. Statutes and administration, procedures, hearings, decisions, rule-making, adjudication. Judicial control of agency action. Federal Administrative Procedure Act. FALL. Franchino. SPRING. 1953 SUMMER. Breithaupt.

Business Associations [4] 37.601

Brief consideration of the law of partnership in its various aspects, including the formation and dissolution of partnerships and the rights of partners and creditors in solvent and insolvent firms; the nature, powers, and obligations of private corporations, including the effect of *ultra vires* acts, together with a consideration of the rights and duties of promoters, officers, directors, and stockholders, and of the rights of creditors and others against the corporation. FALL. 1953 SUMMER. Fuchs.

Conflict of Laws 37.602

Impact on doctrines of conflict of laws of: domicile, jurisdiction of courts, foreign judgments, torts, contracts, the internal law of the forum, property, family law, administration of estates, corporations. SPRING. Franchino.

Creditors Rights [2] 37.603

Fraudulent conveyances, enforcement of judgments, assignments for the benefit of creditors, creditors' agreements, receiverships, corporate reorganization, and bankruptcy, including bankruptcy jurisdiction and administration. FALL. Welsh.

Damages [2] 37.604

Nominal and exemplary damages; compensatory damages; direct and consequential damages in tort and contract cases; aggravation and mitigation of damages; liquidated damages; value; interest; counsel fees and other expenses of litigation; non-pecuniary losses; entirety of recovery; damages in specifications. Not offered in 1952-1953.

Domestic Relations [2] 37.605

Legal consequences of marital contracts. Grounds for dissolution of marriage. Annulment, divorce and separation, alimony, antenuptial debts and contracts. Wife's earnings. Rights and obligations of parent and child. Contracts and torts of infants. 1952 SUMMER. Stecher.

Equity [4] 37.606

General nature of equitable jurisdiction. The *in personam* concept. Specific performance of contracts, specific relief against torts. General and particular equitable remedies. FALL. Myers. Lesser.

Evidence [4] 37.607

Proof of facts in issue. Purpose and necessity of exclusionary rules; the hearsay rule. Examination, competency, and privilege of witnesses. Parole evidence rule. Judicial notice. FALL. Welsh.

Federal Jurisdiction and Procedure 37.608

Jurisdiction of the federal courts. Removal of causes from state to federal courts, venue. Historical background of federal rules of civil procedure, detailed discussion of federal rules of civil procedure, recent amendments, leading cases showing application and interpretation of the rules. Comparison of federal rules with state codes governing procedure. FALL. Yarmolinsky. Breithaupt.

Insurance 37.609

Life, accident, and property insurance. The insurance contract. Insurable interest, rights of beneficiary, insured and assignee, rights of creditors, tax aspects, methods of

settlement, risk covered, rights and powers of insurer. Not offered in 1952-1953.

Labor Law [2] 37.610

Common law and statutory bases for regulation of labor relations. Strikes, boycotts, and other means of self-help. Collective bargaining, rights and obligations of employers and labor organizations under the Labor Management Relations Act. Norris-LaGuardia Act. Legal status and responsibilities of unions. SPRING. **Fuchs.**

Legal Accounting [2] 37.611

Introduction to accounting techniques and to interpretation of financial statements. Emphasis on problems found in practice of the law. Not offered in 1952-1953.

Legal Writing 37.612

Analysis of legal problems. Collection of material and authorities. Mechanics of legal writing. Preparation of opinions and articles. Credit to be arranged. *Admission requires approval of Dean.* FALL. SPRING.

Legislation [2] 37.613

Historical evolution of the legislative process, its present nature and extent. Supplementary rules and regulations. Technique of bill drafting. Principles of statutory construction. Not offered in 1952-1953.

Military Law [2] 37.627

Principles of military justice, including study of courts martial, military commissions, and courts of inquiry; principles of martial law and the law of war showing the interrelation with concepts of international law; source, nature of, and limitations on military authority. 1952 SUMMER. **Walker.**

Moot Court [2] 37.614

Practice court conducted on pattern of district court of the United States. Preliminary investigation of facts, preparation of case for trial, trial briefs, consideration of trial tactics. Conduct of civil actions to final judgment including preparation of complaint, responsive pleadings and motions, impaneling jury, examination and cross-examination of witnesses, prayers, argument to court and jury, procedure on appeal. SPRING. **Moore.**

Municipal Corporations 37.628

The place of local government units in the governmental structure; legal aspects of personnel, finance, community planning, debt adjustment and regulation of business; local government responsibility in Tort and Contract. FALL. **Netherton.**

Negotiable Instruments 37.615

Origin of negotiable instruments. Requisites of negotiability, transfer and negotiation, bank collection problems. Holders in due course. Equities and defenses. Liability of parties. Discharge of instrument, discharge of parties. FALL. **Fuchs. Stecher.**

Patents I [2] 37.616

History, theory, and philosophy of patent system. Practice and procedure in preparation and prosecution of patent applications including interferences, appeals, and patent conveyancing. FALL. **O'Brien.**

Patents II [2] 37.617

Substantive law of patents. Enforcement of patents. Patent litigation in all branches including patent fraud, patent and anti-patent trust problems, license litigation, and suits by or against the sovereign. SPRING. **O'Brien.**

Property II 37.618

Statute of uses. Modern land transaction: statute of frauds, contracts, mortgages and deeds, covenants for title, recording, title examination, title registration, title insurance. Covenants and servitudes. Easements, licenses and profits. Lateral and subjacent support. Water rights. Air rights. SPRING. **Bookstaver.**

Property III 37.619

Future interests: history and development, remainders, reversions, possibilities of reverter, conditions, conditional and executory limitations. Powers of appointment. Problems in construction. Restraints on creation of future interests. Rule against perpetuities. Suspension of alienation. Accumulations. FALL. **Bookstaver.**

Research Seminar [2] 37.629

A research and writing seminar which inquires into a contemporary legal problem designated by the class with the approval of the instructor. Each student develops some phase of the problem which the class synthesizes into a written document. Admission only with approval of Dean and instructor. SPRING. **Netherton.**

Restitution 37.620

Quasi-contractual obligation compared with the contract and tort obligations. Doctrine of unjust enrichment. Legal consequences of mistakes of law and fact. Rescission and reformation. FALL. **Franchino.**

Sales [2] 37.621

Transfer of property interest in goods. Subject matter, price, legal formalities. Divided property interests. Stoppage *in transitu*, conditional sales, approval, consignment and bulk sales. Warranties. Payment, inspection, and acceptance. Remedies. SPRING. **Franchino.**

Security Transactions 37.622

Real and personal security. Legal mortgages. Security holder's choice of remedies. SPRING. **Franchino.**

Taxation 37.623

Jurisdiction to tax and other constitutional limitations. Legal problems presented by

the tax system, with particular attention to Federal income tax. SPRING. 1953 SUMMER. **Fuchs.**

Trade Regulation [2] 37.624

Government control over all forms of unfair trade practices as well as combinations in restraint of trade and monopoly. False and misleading advertising. Misappropriation of business ideas and assets. Disparagement of competitors. Unfair methods of competition. Federal trade commission act, fair trade laws, Robinson-Patman act, unfair sales act, federal food, drug and cosmetic act, Clayton act. Resale price maintenance, price discrimination, selling below cost, and loss leaders, adulteration and misbranding, exclusive arrangements and tie-in regulations. Not offered in 1952-1953.

Trusts 37.625

Trust relation and its development. Necessary elements and manner of creation. Powers, duties, rights, and liabilities of trustees and *cestui que* trusts. Resulting and constructive trusts. SPRING. **Myers.**

Wills [2] 37.626

Descent and distribution. Property rights of surviving spouse. Making and executing of wills. Testamentary capacity, testamentary character and intent. Integration, revocation, ademption, abatement, and lapse. Probate and administration. Problems in estate taxation. FALL. **Franchino.**

MATHEMATICS

WALTER F. SHENTON
Chairman of the Department

PROFESSORS: Fritz Oberhettinger; Walter F. Shenton.

ADJUNCT PROFESSOR: Ernest E. Blanche.

ASSISTANT PROFESSOR: Philip Davis (Visiting, 1952-53).

INSTRUCTOR: Russell V. Person.

PROFESSORIAL LECTURERS: Edward W. Cannon; Olga Taussky-Todd; John Todd.

LECTURERS: Milton Abelson; Howard Campaigne; John H. Curtiss; George B. Dantzig;

William H. Durfee; Franklin M. Fletcher; Marshall Hall, Jr.; Allan J. Hoffman;

Howard W. Kuhn; Joseph H. Levin; Eugene Lukacs; Murray Mannos; A. M.

Ostrowski; Philip Rabinowitz; Mina Rees; Ida Rhodes; Allen W. Tucker.

Mathematics in Human Affairs: Basic Operations 41.100

History of mathematical methods. Practice in handling computations. Basic arithmetic, geometry, and algebra. Use of logarithms and the slide rule. Course planned to meet the needs of students who desire a general understanding of the operations of arithmetic, geometry, and algebra. FALL. Person.

Mathematics in Human Affairs: Advanced Operations 41.101

Fundamentals of trigonometry. Application of logarithms to trigonometry. Chains of related numbers. Introduction to the mathematics of business and statistics. Related rates—the basis of the calculus. *Prerequisite, Mathematics in Human Affairs: Basic Operations 41.100.* SPRING. Person.

College Algebra 41.110

Linear and quadratic equations and their graphs. Exponents and logarithms. Mathematical induction and the binomial theorem. Arithmetic and geometric progressions. Permutations, combinations, and probability. Systems of linear equations and use of determinants. *Prerequisite, one year of high school algebra.* FALL. SPRING. SUMMER. Person.

Plane Analytic Geometry 41.140

Cartesian coordinates of points. Distance between two points. Definition of trigono-

metric functions in terms of coordinates and distances. Trigonometric equations and identities. Equations and their loci. Lines and circles. Translation and rotation of axes. Parabolas, ellipses, and hyperbolas. General equation of second degree. Parametric representation. Polar co-ordinates. *Prerequisite, College Algebra 41.110.* SPRING. SUMMER. Person.

Fundamentals of Business Mathematics 41.160

Mathematical operations basic to work in accounting, statistics, finance, and related business subjects. Accuracy in computations in terms of decimal places and significant digits. Applications of percentages and ratios. Arithmetic and geometric progressions. Logarithms. Interpolation. Linear equations. Applications of simple and compound interest to investment accumulation, discounting, annuities, amortization, capitalization, and sinking funds. *Prerequisite, one year of high school algebra.* FALL. SPRING. Abelson.

Differential and Integral Calculus¹ 41.220

Development of the idea of differentiation of polynomial functions and its major applications followed at once by the integration of these functions and the calculation of areas and volumes. Differentiation of general algebraic and transcendental functions. Application to maxima and minima, related rates, velocity and acceleration, radius of curvature, and Newton's method of approxi-

mation of the roots of any equation. *Prerequisite, Trigonometry and Analytic Geometry 41.140.* FALL. SUMMER. **Person.** Shenton.

Differential and Integral Calculus² **41.221**

Tracing plane curves in rectangular and polar co-ordinates. General problem of integration. Definite integrals, applications to science and geometry. Approximate integration, indeterminate forms. *Prerequisite, Differential and Integral Calculus¹ 41.220.* SPRING. SUMMER. **Person.** Shenton.

Linear Algebra **41.310**

Determinants, minors and cofactors, linear substitutions and the corresponding matrices, operations of matrix algebra, use of reciprocal matrix in the solution of systems of linear equations. Linear, bi-linear, and quadratic forms, especially positive definite forms. Canonical forms, orthogonal transformations. *Prerequisite, a course in the calculus.* FALL. **Shenton.**

Theory of Equations **41.311**

Complex numbers, quadratic equations, remainder theorem, real and complex roots of polynomials, limits to real roots, impossible constructions by ruler and compasses, solutions of cubic and quartic equations, derivatives and graphs, isolation of roots, numerical solution of equations by Horner's and Newton's methods, symmetric functions. *Prerequisite, Linear Algebra 41.310.* 1953 SPRING AND ALTERNATE YEARS. **Shenton.**

Advanced Topics in the Calculus **41.320**

Review and extension of integration and its applications. Expansion of various functions by Taylor's and MacLaurin's theorems. Hyperbolic functions, partial differentiation, multiple integrals, use of a table of integrals. *Prerequisite, Differential and Integral Calculus² 41.221.* FALL. **Shenton.**

Differential Equations **41.321**

Simple differential equations, particular solutions and simple applications, equations

of the first order and first degree, simultaneous equations, first order equations of higher degree, linear equations with constant coefficients, miscellaneous equations of higher order, integration in series. *Prerequisite, Advanced Topics in the Calculus 41.320.* SPRING. **Shenton.**

Solid Analytic Geometry **41.440**

Coordinate geometry of curves and surfaces in three-dimensional space with emphasis on straight lines, planes, and quadric surfaces. *Prerequisite, Linear Algebra 41.310.* 1954 SPRING AND ALTERNATE YEARS. **Shenton.**

Matrix Theory **41.510**

Fundamental definitions, operations with matrices, equivalent matrices, lambda matrices, latent roots and latent vectors, canonical forms, numerical methods, applications to systems of linear ordinary differential equations, applications to linear dynamical problems. *Prerequisite, Linear Algebra 41.310.* 1953 FALL AND ALTERNATE YEARS. **Levin.**

Modern Algebra **41.511**

Semigroups and groups; invariant subgroups; factor groups; homeomorphisms; rings, integral domains, fields; polynomial rings; principal ideal domains; groups with operators; modules and ideals; lattices; Boolean algebra. *Prerequisite, Linear Algebra, 41.310.* 1954 SPRING AND ALTERNATE YEARS. **Rees.**

Introduction to Analysis [6] **41.520-521**

A two-session course. Numbers and functions, integration and differentiation, power series, Fourier series, functions of several variables, partial differentiation, iterated and multiple integrals, line, surface, and space integrals. Differential equations, vector analysis, calculus of variations, functions of a complex variable. Applications stressed. Some functions of higher analysis studied. *Prerequisite, Advanced Topics in the Calculus 41.320.* FALL. SPRING. **Mannos.**

Special Functions **41.524**

Fundamental properties of the higher mathematical functions such as Gamma and

Bessel functions; Legendre, Hermite, Laguerre and Chebyshev polynomials. Topics studied include differential equations, series expansions, integral representations, asymptotic expansions, determination of zeros. *Prerequisite, Differential Equations 41.321 and Introduction to Analysis 41.520-521.* FALL. Oberhettinger.

The Fourier Transform 41.525

Foundations of theory of measure. Review of Riemann integral, Lebesgue and Lebesgue-Stieltjes integrals, linear operators and integral transforms in general, convergence and summability, Tauberian theorems. Applications, vibration theory, heat conduction, electromagnetic theory, differential equations, difference equations, integral equations, probability. *Prerequisite, Introduction to Analysis 41.520-521.* SPRING. Fletcher.

Operational Calculus 41.526

Theory and application of the Laplace transform. Solution of ordinary and partial differential equations, inversion theorem, Heaviside's methods, applications to electric circuit theory. *Prerequisite, Introduction to Analysis 41.520-521.* 1953 FALL. Abramowitz.

Vector Analysis 41.528

Detailed study of vector algebra and calculus, linear vector functions, and dyadics. Applications to geometry, mechanics, electricity, and magnetism. *Prerequisite, Introduction to Analysis 41.520-521.* 1953 FALL. Abramowitz.

Projective Geometry [2] 41.540

An introduction to projective geometry and its relation to the foundations of Euclidean and non-Euclidean geometry. *Prerequisite, Analytic Geometry 41.140.* FALL. Hoffman.

Advanced Numerical Analysis [6] 41.560-561

A two-session course. Solution of simultaneous linear equations, interpolation, finite differences, numerical differentiation and in-

tegration, numerical approximations by orthogonal functions, least squares, asymptotic representation, difference equations, numerical solutions of ordinary and partial differential equations, and integral equations by various methods, continued fractions, calculations of inverses of matrices of large order by various methods, eigenvalues of matrices. Topics in table-making, how to plan and use tables, optimum interval tables, differencing. *Prerequisite, Differential and Integral Calculus² 41.221.* 1953 FALL AND 1954 SPRING. Todd and Staff.

Advanced Theory and Use of Modern Computing Equipment 41.562

Mathematical requirements for electronic digital computers. Alternative methods of sequencing automatic computers, instruction codes. Electronic computer systems and components: internal memory, control, arithmetic unit, input-output devices. Performance characteristics of electronic computers, analysis of errors, preparation of problems for machine solutions, analysis of design features of electronic digital computing machines including treatment of control systems, arithmetic organs, and memory devices. Advanced programming methods and exercises in coding problems for solution on the machines. *Prerequisite, Fundamentals of Statistics 69.200 or equivalent and advanced work in engineering, mathematics, statistics, or physics.* FALL. Rhodes.

Calculus of Finite Differences 41.565

Mathematics of functions defined or tabled for certain values of x . Differences, interpolation, expansion of functions, especially in factorial form. Summation, generating functions, and difference equations. Numerical integration, graduation, and other approximations. *Prerequisite, Differential and Integral Calculus² 41.221.* 1953 SPRING AND ALTERNATE YEARS. Blanche.

Probability Methods in Numerical Analysis 41.567

Mechanical quadrature by statistical sampling methods. Matrix inversion by sampling methods, approximate solutions of boundary value problems by probabilistic devices, statistical diffusion and transport problems, statistical solutions of eigenvalue problems,

related theory of stochastic processes. *Prerequisite, Advanced course in mathematical statistics with a calculus prerequisite.* SPRING. Curtiss.

Numerical Analysis¹: Ordinary Differential Equations [2] 41.568

Numerical solution of ordinary differential equations of initial value and boundary value types. Introduction to numerical solution of partial differential equations. *Prerequisite, consent of the instructor.* FALL. Lukacs.

Numerical Analysis²: Partial Differential Equations [2] 41.569

Review of the algebraic problem. The theory of Sturm-Liouville problems, expansion theorem, maximum-minimum properties, inclusion theorems, asymptotic behavior. Numerical methods, iteration methods, Rayleigh-Ritz method, remarks on difference methods. The equation $u + u = 0$ as an example of a two-dimensional problem, symmetrisation, Courant's laws on the asymptotic distribution of the eigenvalues. *Prerequisite, 41.568 Numerical Analysis¹: Ordinary Differential Equations.* SPRING 1953. Henrici.

Theory of Probability for Physical Scientists [6] 41.574-575

A two-session course. Foundations of the theory of probability, random variables and distribution functions, multivariate distributions, special distributions, addition of independent random variables, differentiation and integration of random variables, Markoff chains, transition probabilities, ergodic properties, simple continuous Markoff processes, the Chapman-Smoluchowsky and the Fokker-Planck equations. *Prerequisite, Differential and Integral Calculus 41.221. Some knowledge of linear algebra desirable.* Not offered in 1952-1953. Lukacs.

Advanced Mathematics for Statistics 41.576

Latin squares and other combinatory analysis, finite Galois fields, n -dimensional geometry, matrices, and the Jacobian, Borel sets,

Lebesgue measure, Steiljes, and Riemann integrals, Fourier transform, and contour integration. *Prerequisite, Linear Algebra 41.310 and at least a year of calculus.* FALL. Campaigne.

Linear Programming and Game Theory [4] 41.580-581

A two-session course. Theory of linear inequalities, properties of convex cones, maximization of linear forms, introduction to game theory, application to game theory problems. Dual system of inequalities, minimization of maximum error, computation methods, simplex technique, the Brown-von Neumann technique, the Koopman-Tompkins projective methods, the Motzkin double descriptive and elimination techniques. Non-linear generalizations of Tucker and others. *Prerequisite, Differential and Integral Calculus 41.221, Matrix Theory 41.510, or survey course in linear programming.* FALL AND SPRING. Dantzig.

Theory of Games [4] 41.582-583

A two-session course. Zero-sum two-person games in matrix form, the existence and nature of good strategies, computation of solutions, linear programming, games in extensive form, games with an infinite number of pure strategies, and an introduction to n -person games. *Prerequisite, Matrix Theory 41.510.* FALL. Tucker and Kuhn.

Group Theory [2] 41.610

Permutation groups, subgroups and cosets, normal subgroups and homomorphisms, fundamental isomorphism theorems, operator-isomorphism, Jordan-Holder theorem, solvable groups, direct products, Abelian groups, Sylow subgroups, p -groups, group theory and the theory of equations. *Prerequisite, Consent of the instructor.* FALL. Taussky-Todd.

Combinatorial Analysis [2] 41.611

Topics to be considered include permutations, combinations, recursion formulas, generating functions, symmetric functions, partitions, finite geometries, and incidence matrices. Applications to Latin squares,

Steiner triples, block diagrams, etc. *Prerequisite, Modern Algebra 41.511 or consent of the instructor.* 1953 SPRING. **Newman.**

Complex Variables [6] 41.620-621

A two-session course. Basic definitions, necessary topological concepts, differentiation and integration of functions of a complex variable. Cauchy's theorem, Taylor and Laurent series, the elementary functions. Calculus of residues, singularities, analytic continuation. Entire functions, conformal mapping, approximation of polynomials in the complex domain, various special functions, period functions, multiple valued functions, Riemann surfaces. *Prerequisite, Introduction to Analysis 41.520-521.* 1953 FALL. 1954 SPRING. **Lukacs.**

Real Functions¹: Theory of Point Sets [2] 41.622

An introduction to the theory of classes and point sets, including such topics as the general theory of sets and trans-finite numbers, set functions, Euclidean, metric, and general topological spaces. *Prerequisite, Introduction to Analysis 41.520-521, or the equivalent.* FALL. **Durfee.**

Real Functions²: Theory of Measure [2] 41.623

Additive functions of a set. Outer measure. Measure. Inner measure. Transformations leaving measure invariant. Covering theorems. (Non-measurable functions). Fundamental properties of Lebesgue integrals. Applications. *Prerequisite, Real Functions¹: Theory of Point Sets 41.622.* 1953 SPRING. **Antosiewicz.**

Calculus of Variations [2] 41.625

Classical problems. The brachistochrone problem, minimal surfaces, general problem for simple and multiple integrals, necessary and sufficient conditions for minima; fields of extremals, properties of the second variation, Hamilton-Jacobi theory. *Prerequisite, Introduction to Analysis 41.520-521.* 1954 SPRING.

Theory of Interpolation & Approximation for Analytic Functions [2] 41.626

Classes of analytic functions, linear functionals and biorthogonal sets, problems of finite interpolation, infinite systems of linear equations in infinitely many variables, elements of linear space theory, completeness of sets of functionals, completeness of sets of functions, series of polynomials, biorthogonal expansions, some special problems of infinite interpolation, Hilbert differential equations of the elliptic type. *Prerequisite, Complex Variables 41.620-621.* FALL. **Davis.**

Bessel and Legendre Functions 41.627

Applications of the Bessel and Legendre functions. Topics studied include differential equations, asymptotic expansions, determination of zeros. *Prerequisite, Introduction to Analysis 41.520-521 and Differential Equations 41.321.* 1953 SPRING. **Oberhettinger.**

Ordinary Differential Equations—Fuchsian Theory [2] 41.629

Existence theorems, equations with constant coefficients, equations with uniform analytic coefficients, regular singularities, Laplace transform, hypergeometric equation, Lamé's equation, Mathieu's equation. *Prerequisite, Differential Equations 41.321 and Complex Variables 41.620-621.* 1953 SPRING. **Oberhettinger.**

Non-Linear Mechanics [6] 41.652-653

A two-session course. Analytical and topological methods, oscillatory systems, free and forced vibrations, non-linear restoring forces, iteration and perturbation methods of solution, methods of Duffing, Andronow, and Witt. Analysis of stability by use of Hill's and Mathieu's equations, Liapounoff's theorem, limit cycles and bifurcation theory of Poincaré, existence of periodic solutions. *Prerequisite, Introduction to Analysis 41.520-521.* FALL AND SPRING. **Cannon.**

Partial Differential Equations of Mathematical Physics [2] 41.658

Partial differential equations in general, Gauss's function, boundary-value problems, eigenvalue and eigen function problems of electromagnetic and acoustic radiation. *Prerequisite, Differential Equations 41.321 and Introduction to Analysis 41.520-521.* FALL. Oberhettinger.

Seminar in Modern Algebra [2] 41.710

Number theory in special algebraic number fields, finite groups and groups with a finite number of generators, non-associative hypercomplex systems, hypercomplex systems with rational coefficients, topological algebra, advanced problems in the theory of finite matrices. *Prerequisite, Modern Algebra 41.511 or consent of the instructor.* FALL. Taussky—Todd.

Seminar in Group Theory [2] 41.711

Elements of group theory, homomorphisms and operators, direct products, p-groups, special problems, e.g., Brownside problem. *Prerequisite, Modern Algebra 41.511.* 1952 FALL. Hall.

Seminar in Analysis [2] 41.720

Selected topics related to asymptotic expansions. *Prerequisite, consent of the instructor.* FALL. Oberhettinger.

Seminar in Analysis [2] 41.721

Advanced topics in analysis. *Prerequisite, Consent of the instructor.* SPRING 1953. Ostrowski.

Thesis Seminar in Mathematics 41.799

Shenton and Staff.

MUSIC

JAMES L. McLAIN
Chairman of the Department

PROFESSOR: James McLain.

ASSISTANT PROFESSORS: Gordon Smith; George Steiner; Evelyn Swarthout.

INSTRUCTORS: Richard Dirksen; Glenn D. Gunn.

LECTURERS: Ronald Arnatt; Frank Campbell; Paul Calloway.

Introduction to Theory [2] 43.100

General background for advanced courses. Fundamentals of musical knowledge. Elements of melody, harmony, and rhythm. Symbols and staff notation. Scales, intervals, and chords. *Credit may not be counted toward concentration requirements.* 1952 FALL.

Elementary Theory [4] 43.101

Theory course integrated to include harmony, ear-training, and sight singing. Chord construction, triads, and inversions. Simple rhythmic, melodic, and harmonic dictation. *Prerequisite, introduction to Theory 43.100 or its equivalent and some pianistic skill.* FALL. Smith and Arnatt.

Elementary Theory [4] 43.102

Dominant and secondary seventh chords. Non-chordal tones, simple modulations. Extended rhythmic, melodic, and harmonic dictation. *Prerequisite, Elementary Theory 43.101.* SPRING. Smith and Arnatt.

Terminology, Notation, Instrumentation [2] 43.103

Derivation and definition of musical terms. Notation in all clefs. Embellishments. Analytical study of instruments of the orchestra. FALL.

Appreciation of Music [2] 43.201

Materials of music as they relate to listening. Survey of principal forms through a study of representative works. Aural analysis. FALL. SUMMER. Smith.

Appreciation of Music [2] 43.202

Critical survey of composers and styles of the classical, romantic, and modern periods. Aural analysis. SPRING. SUMMER. Smith.

Advanced Theory [4] 43.203

Advanced harmony and ear-training. Ninth, eleventh, and thirteenth chords. Extended modulations. Advanced rhythmic, melodic, and harmonic dictation. *Prerequisite, Elementary Theory 43.102.* FALL. Smith and Arnatt.

Advanced Theory [4] 43.204

Altered chords, dissonances, extended modulations. 20th century technics. Contrapuntal and advanced rhythmic, melodic, and harmonic dictation. Keyboard harmony. *Prerequisite, Advanced Theory 43.203.* SPRING. Smith and Arnatt.

Elementary Conducting [1] 43.205

Practical study of the technics of the baton. *Prerequisite, permission of department chairman.* FALL. Smith.

Elementary Conducting [1] 43.206

Continuation of practical study of the technics of the baton. Introduction to score reading. *Prerequisite, Elementary Conducting, 43.205 or permission of departmental chairman.* SPRING. Smith.

Class Instrumental Study [1] 43.250

Class instruction in use of orchestral instruments. Preparation for coaching. Course offered primarily for students majoring in

the department with concentration in public school music. Credit granted on fall-spring unit upon satisfactory completion of the study. **Smith.**

History of Music 43.301

Development of music in Western civilization from the modal structures of the Greeks to the Baroque era. *Prerequisite, Appreciation of Music 43.202 or permission of department chairman.* FALL. **Campbell.**

History of Music 43.302

Development of music in Western civilization from the Baroque era to the present day. *Prerequisite, History of Music 43.301 or permission of department chairman.* SPRING. **Campbell.**

Counterpoint [2] 43.303

Strict counterpoint in the various species in two and three parts. *Prerequisite, Elementary Theory 43.102 or permission of department chairman.* FALL. **Smith.**

Counterpoint [2] 43.304

Strict counterpoint in the various species in four and five parts. Free counterpoint. *Prerequisite, Counterpoint 43.303.* SPRING. **Smith.**

Orchestration 43.305

Scoring for instrumental groups. Arrangements for orchestra from piano and vocal scores. *Prerequisite, Advanced Theory 43.204.* FALL. **Smith.**

Form and Analysis 43.306

Harmonic and formal analysis of representative master works from all periods. *Prerequisite, Advanced Theory 43.204.* SPRING. **Smith.**

Advanced Conducting [1] 43.307

Score reading. Special technics for instrumental groups. Rehearsal routines. *Prerequisite, Elementary Conducting 43.205 and permission of department chairman.* FALL. **Smith.**

Advanced Conducting [1] 43.308

Score reading. Special technics for choral and instrumental groups. Rehearsal routines. *Prerequisite, Advanced Conducting 43.307 and permission of department chairman.* SPRING. **Smith.**

The Baroque Era 43.401

Study of the thorough-bass period. Development of styles and technics leading to Bach and Handel, the culminating masters of the Baroque. *Prerequisite, History of Music 43.302 or permission of department chairman.* 1953 FALL AND ALTERNATE YEARS.

The Classic Era 43.402

The preclassical schools. Haydn, Mozart, and Beethoven, masters of the classical style. Intensive study of the life and music of each. *Prerequisite, History of Music 43.302 or permission of department chairman.* 1954 SPRING AND ALTERNATE YEARS.

The Romantic Period 43.403

Historical and cultural background. Intensive study of composers and works with emphasis on individual styles. *Prerequisite, History of Music 43.302 or permission of department chairman.* 1952 FALL AND ALTERNATE YEARS.

Music of the Twentieth Century 43.404

Development of modernism in music from impressionism to the present. Schools, technics, and trends. *Prerequisite, History of Music 43.302 or permission of department chairman.* 1953 SPRING AND ALTERNATE YEARS.

Composition 43.405

Study through discussion and demonstration of the creative process in music. Guidance in the construction of original compositions in the smaller forms. Analysis of representative works. *Prerequisite, Advanced Theory 43.204, Counterpoint 43.304, and permission of department chairman.* FALL. **Smith.**

Composition 43.406

Original works in the larger forms. Work adapted to individual needs and talents. *Prerequisite, 43.405 or permission of department chairman.* SPRING. Smith.

Individual Study

- Piano ..Swarthout, Arnatt, Gunn 43.410
- OrganDirksen, Arnatt 43.411
- VoiceMcLain 43.412
- Orchestral Instruments.. 43.413
- ViolinSteiner
- Instruction in other instruments by members of the National Symphony Orchestra.

All credit granted is based on strict evaluation of performance, the department reserving the right to reduce or deny credit if the student does not give evidence of proper application or actual achievement. Individual practice may be arranged for by departmental schedule. *Prerequisite, individual audition before department chairman.* Fall, Spring, Summer.

Concentration Requirements

Music History and Literature

- Minimum of
- 16 academic hours in theoretical subjects
- 16 academic hours in music history and literature
- 8 academic hours in piano, organ, voice or orchestral instruments
- 8 supporting academic hours in related fields selected in conference with the department chairman.

Public School Music

Before the beginning of the sophomore year the student preparing for a career in public school music must review his program plan with the department chairman AND the chairman of the department of education to insure compliance with requirements of the state in which the student proposes to teach.

- Minimum of
- 30 academic hours in music theory, history and literature

18 academic hours in courses in education planned as a definite program to teach music in public schools. Courses within these 18 hours must be elected in educational psychology, observation and practice teaching, principles and methods of teaching music in secondary schools, and principles and methods of teaching in junior high schools.

No specific number of hours in piano, voice, or orchestral instruments is required. The amount of work to be done in these subjects is determined by the individual needs of the student in preparation for practical tests for teacher certification in (a) vocal and piano sight reading, (b) accompanying, (c) acceptable performance of prepared vocal and instrumental compositions, and (d) ability to play a tune on the following orchestral instruments: (1) a member of the string family, (2) a member of the woodwind family, and (3) a member of the brass-wind family.

Piano, Organ, Voice, and Orchestral Instruments

- Minimum of
- 16 academic hours in theoretical subjects
- 16 academic hours in piano, organ, voice, or orchestral instruments
- 8 academic hours in music history and literature
- 8 supporting academic hours in related fields selected in conference with the department chairman.

Theory

- Minimum of
- 32 academic hours in theoretical subjects
- 8 academic hours in piano, organ, or orchestral instruments
- 8 academic hours in music history and literature
- 8 supporting academic hours in related fields selected in conference with the department chairman.

NURSING EDUCATION*

GLADYS V. JORGENSEN

*Director of Nursing Education Studies in the
Department of Education*

ASSISTANT PROFESSOR: Gladys Jorgenson.

LECTURERS: Mary Jane Brady; Alice C. Neff; Norman Taub;
Allienne K. Tilley; George Weickhardt.

NURSING EDUCATION

Foundations of Nursing Education [2] 45.300

Historical survey of foundations, present status, and trends in nursing education. FALL. Jorgenson.

Social and Health Aspects of Nursing [2] 45.301

Philosophy of individualized patient care with integration of social, economic, psychological factors involved. Study of the community resources available to the hospital patient for maintenance of health. SPRING. Jorgenson.

Teaching Nursing in Clinical Fields [4] 45.410-411

A two-session course. Functions and responsibilities of clinical instructor; organization and selection of content and methods for the clinical course; planned program of experience for students; measurement of student attainment. FALL. SPRING. Jorgenson.

*A one-year post graduate education course in psychiatric nursing is given at Saint Elizabeths Hospital in affiliation with The American University. Nurses receive thirty-six hours of academic credit and a year of supervised clinical experience under the direction of a faculty composed of members of the faculties of the hospital and The American University. Full credit for this program is given by the University and may be applied toward a bachelor's degree in nursing education. Up to 16 credits earned in the program may be applied toward the master of arts degree in psychology, education, or sociology, provided the student has completed 24 hours of undergraduate work with an average of B in the field in which the advanced degree is sought. Advanced courses in psychiatric nursing are administered by the Department of Psychology and Education of the School of Social Sciences and Public Affairs.

Administration of the Hospital Nursing Unit [4] 45.420-421

A two-session course. Principles, problems, and methods of organization and administration of hospital nursing unit. Functions of head nurse in planning environment of patient, in developing professional and non-professional personnel, and in teaching students and patients. Place of head nurse in hospital organization and in community health program. FALL. SPRING. Jorgenson.

PSYCHIATRIC NURSING

Psychiatric Nursing [2] 57.360-361

A two-session course. Extends the basic course in psychiatric nursing. Provides an understanding of psychiatry as a basis for giving expert nursing care to mentally ill people. FALL. SPRING. Tilley.

Neurologic Nursing [1] 45.363

The nursing care of patients with neurological and neurosurgical conditions in the hospital, home or community. Some emphasis is placed on the mental mechanisms involved in patients with these diseases. SPRING. Brady.

Practicum in Psychiatric Nursing [6] 45.468-469

A two-session course. Planned observation or participation in psychiatric therapies; supervised experience as a staff nurse, head nurse, supervisor; participation in the direction of learning experiences for nursing students and in the supervision and instruction of auxiliary personnel. Analytical reports of evaluation of experience submitted monthly. FALL. SPRING. Neff.

PHILOSOPHY

WAYNE McLAIN

Acting Chairman of the Department

ASSOCIATE PROFESSOR: Ralph C. John (Chairman, on leave of absence with the armed forces).

ASSISTANT PROFESSOR: Wayne McLain.

LECTURER: N. J. G. Joardar.

Logic 47.200

Introduction to the science of valid inference and its relation to the scientific method. Principles of reasoning, inductive and deductive processes of logical thinking. Discovery of fallacies and verification of conclusions. FALL. McLain.

Introduction to Philosophy 47.201

Consideration of questions man has asked about himself, his relationships to other men and to the physical world, and about the origin, purpose, and destiny of his life. Critical study of the representative answers given by the great thinkers. Nature of the philosophical quest; criteria of truth; problems of epistemology, universals and values, consciousness. Survey of chief philosophical world views. Problems of mechanism and teleology, nature and faith, and of the ends of man. *Prerequisite to all other upper level courses in the department.* FALL. McLain.

History of Philosophy 47.202

Survey of ideas of philosophers from Socrates to John Dewey. FALL. Joardar.

History of Philosophy: Ancient and Medieval 47.300

Historical survey of representative philosophers from the beginnings of western philosophy in early Greek naturalism to the Renaissance. Emphasis on the relation between philosophy and man's total cultural experience. FALL. McLain.

History of Philosophy: Modern 47.301

Survey of representative philosophers from Descartes to Dewey. Critical appraisal

of peculiarly modern philosophical tendencies in their relation to scientific, social, political, and religious developments. SPRING. McLain.

American Thought 47.303

Development of thought in America since colonial times. Consideration of the historical sources of American ideas. Study of representatives of major American schools of thought. 1953 SPRING AND ALTERNATE YEARS. McLain.

Philosophy of Religion 47.400

Objective study of the nature of religion, the validity of its approach to experience and reality, and its relation to science, art, and literature. Fundamental problems: good and evil, sin, freedom and restraint, prayer, revelation, immortality, reason, will, and the nature of God. SPRING. McLain.

Aesthetics 47.401

The nature of beauty and the relation of the philosophy of the beautiful to the fine arts and to human experience. Study of ideas of the beautiful as represented by thinkers from Plato to Santayana and Dewey. *Prerequisite, permission of the instructor.* 1953 FALL AND ALTERNATE YEARS.

Ethics 47.402

Systematic inquiry into the principles of valuation, their relation to factual judgments, and individual and social behavior. The act of choice; moral experience. Historical review of theories of ethics. Evaluation of various areas of contemporary life with consideration of the consequences which result from the application of different value standards in the act of choice. Standards of taste. 1954 SPRING AND ALTERNATE YEARS.

PHYSICAL EDUCATION AND HEALTH

HUGO SCHULZE

Acting Chairman of the Department

PROFESSOR: Stafford H. Cassell.

ASSISTANT PROFESSORS: Virginia Hawke; Hugo Schulze.

INSTRUCTORS: Robert Frailey; Audrey Wiggins.

LECTURER: Hardy Pearce.

Physical Education (6)

Required for all fulltime undergraduate students enrolled in the College of Arts and Sciences. Student takes one credit hour of work for each of the six sessions following matriculation. *Two meetings each week.*

Each student must take two sport seasons (1 semester) of an activity in each of the following three categories:

Indoor Individual Sport
Outdoor Individual Sport
Swimming

The remaining 3 credits are elective; required courses are numbered as follows:

FIRST YEAR

	Men	Women
Fall Session	49.100	49.150
Spring Session . .	49.101	49.151

SECOND YEAR

Fall Session	49.200	49.250
Spring Session . .	49.201	49.251

THIRD YEAR

Fall Session	49.300	49.350
Spring Session . .	49.301	49.351

Intramurals—Men and Women (no credit)

Voluntary participation in competitive group activities.

Intercollegiate Athletics—Men (no credit)

Voluntary participation in varsity sports in basketball, baseball, golf, swimming, tennis

and in track and field sports. Eligibility based on codes of the National Collegiate Athletic Association and of the Mason-Dixon Conference.

First Aid, Safety Education, and Athletic Training 49.120

First aid, athletic training, and treatment of conditions which legitimately fall in the sphere of the non-medical director. Practice in methods of handling types of emergencies. Safety problems and methods; causes of and means of preventing accidents; safety education. Satisfactory completion of the course recognized by Red Cross certificate. *Prerequisite to all other courses in the department.* Schulze.

History and Principles of Health and Physical Education 49.121

Development, purpose, and scope of health, physical, and safety education, and of athletic coaching, recreation leadership, and camping. Relation of principles of physical education to the school curriculum. Evaluation of the outcome of physical education activities. Lectures, recitation, readings, and reports. Pearce.

Leadership in Physical Education (2) 49.220

Methods, theories, and techniques of training others in health, physical education, athletics, and recreation. Experience in teaching physical education classes and organizing and supervising recreational activities. *Prerequisite, History and Principles of Health and Physical Education* 49.121. Pearce.

Organization and Administration of Intramural Athletics (2) 49.221

Theory and practice in the construction and administration of intramural sports programs. Extensive study of secondary school and college programs and equipment. *Prerequisite, Leadership in Physical Education 49.220. Schulze.*

Leadership Procedure 49.222

Theory and practical demonstration of teaching procedures in adapting motor activities to the physical education program. *Prerequisite, minimum of 12 credit hours in physical education. Course required of all students whose field of concentration is physical education. Frailey.*

Kinesiology (4) 49.320

Science of bodily movement. Study of principal types of muscular exercise. Inquiry into how individual performs exercise, the reaction of the body, and the relation of exercise to body development and efficiency. Body mechanics in relation to posture, exercise, and sports. *Prerequisite, Human Anatomy and Physiology 9.116. Frailey.*

Recreation Programs 49.321

Principles and policies of recreation agencies with attention to administration, legislation, centers, equipment, personnel, and program. *Prerequisite, written permission of the chairman of the division. Schulze.*

Rules and Officiating (2) 49.322

Intensive study of rules of intercollegiate, intramural, and interscholastic sports. Techniques and methods of officiating with practice under supervision. *Prerequisite, written permission of the chairman of the department. Schulze.*

Coaching Minor Sports 49.323

Principles, methods, and strategy used in coaching minor sports. Fundamentals, systems, and equipment used by coaches,

trainers, and physical educators in swimming, tennis, track, and boxing. *Prerequisite, written permission of the chairman of the department. Schulze.*

Coaching Major Sports 49.324

Principles, methods, and strategy used in coaching major sports. Fundamentals, systems, and equipment used by coaches, trainers, and physical educators in football, basketball, and baseball. *Prerequisite, written permission of the chairman of the department. Schulze.*

Tests and Measurements in Physical Education 49.420

Introduction to the use of measurement techniques in physical education. Principles of tests, their construction, administration, and interpretation. Survey of tests and measurement techniques. *Prerequisite, Fundamentals of Statistics 69.200. Frailey.*

Organization and Administration of Physical Education and Athletics 49.421

Principles of organization and administration of physical education in elementary schools, secondary schools and colleges. Attention to conduct of intercollegiate, interscholastic, and mass athletics. Departmental personnel, schedules, equipment, plant, and related problems. *Prerequisite, written permission of the chairman of the division. Pearce.*

Health Education 49.422

Seminar in advanced health education planned to meet state teaching requirements. School and community hygiene. *Prerequisite, written permission of the chairman of the division. Frailey.*

Driver Education (2) 49.425

Course to train secondary school teachers in the methods and materials of conducting a course in "Driver Education." Completion of this course satisfies certification requirements in all states. *Schulze.*

PHYSICS*

HOWARD C. LONG
Chairman of the Department

PROFESSOR: Bancroft W. Sitterly.
ADJUNCT PROFESSOR: Edwin P. Heinrich.
ASSOCIATE PROFESSOR: Howard C. Long.

Physical Science: Energy 51.100

Concept of energy and related concepts of physics in fields of mechanics, heat, electricity, radiant energy, and nuclear energy. Application to the production, transportation, and use of power. A course introductory to the study of the social sciences and to business and industrial management. FALL. Sitterly.

**General Physics¹ [4] 51.200

Introduction to the fundamental laws of mechanics, heat, and sound; applications to simple problems in mechanical, heat, and acoustic energy; properties of waves and matter. Laboratory exercises require the student to perform experiments, analyze data, and write reports. *Prerequisite, College algebra 41.110 (may be taken concurrently).* 3 hours of lecture demonstration and recitation, 4 hours of laboratory. FALL. SUMMER. Staff.

**General Physics² [4] 51.201

Introduction to the fundamental laws of electricity and magnetism, light, and modern physics; applications to simple problems involving electric currents, optical instruments, etc.; introduction to modern concepts of the structure of matter. *Prerequisite,*

* A fee of \$5.00 is assessed from all parttime students enrolled in laboratory courses. The fee is not refundable.

**Physics 51.200 and 51.201 and six hours of Differential and Integral Calculus 41.220-221 are prerequisite to all subsequent courses offered in the Department of Physics (the Calculus may be taken concurrently).

site, General Physics¹ 51.200, or consent of instructor. 3 hours of lecture demonstration and recitation, 4 hours of laboratory. SPRING. SUMMER. Staff.

Heat and Thermodynamics 51.300

Introduction to the fundamental ideas of heat and temperature, kinetic theory of gases, and elementary thermodynamics. Applications to problems in thermal expansion, heat transfer, radiation, specific heat, state of matter, etc. 1953 FALL AND ALTERNATE YEARS. Heinrich.

Sound and Acoustics 51.301

Theory of wave motion; production, propagation and detection of sound waves with applications to music and speech; acoustical measurements; acoustics of auditoriums and broadcasting stations. 1954 SPRING AND ALTERNATE YEARS. Heinrich.

Radio Electronics [4] 51.302

Characteristics of vacuum tubes, oscillators, amplifiers, detection, modulation, power supplies, receivers and transmitters. 1954 FALL AND ALTERNATE YEARS. Long.

Radio and Television [4] 51.303

Thorough study of AM and FM radio receivers and transmitters. Circuits for achieving phase and frequency modulation, discriminating circuits, stabilization, electronic scanning devices, cathode ray tubes, color transmission. *Prerequisite, Radio Electronics 51.302.* 1955 SPRING AND ALTERNATE YEARS. Long.

Electronics in Research and Industry [4] 51.304

Non-communication uses of electron tubes including such topics as the following: photoelectric cells, power supplies, regulation of voltage and current, amplification of small effects, trigger circuits, vacuum-tube voltmeters, cathode-ray tubes. *Prerequisite, Radio Electronics 51.300.* 1955 SPRING AND ALTERNATE YEARS. **Heinrich.**

Principles of Mechanics¹ 51.305

Rectilinear kinematics and dynamics. Plane dynamics of a particle. Gravitation. Centers of mass. Plane statics. Introduction to vector methods. 1953 FALL AND ALTERNATE YEARS. **Long.**

Principles of Mechanics² 51.306

Oscillatory motion. Plane dynamics of a particle in the earth's field. Moments of inertia. Hooke's law. Vector equations of motion. Other selected topics. 1954 SPRING AND ALTERNATE YEARS. **Long.**

Electricity and Magnetism [4] 51.400

Fundamental behavior of electric charges and the forces determining their motion. Electric, magnetic, and electro-magnetic fields. Precise measurement in the laboratory of charge current, potential difference, resistance, capacitance, and inductance. 1953 FALL AND ALTERNATE YEARS. **Long.**

Alternating Current Networks and Simple Transients [4] 51.401

Effects of inductance and capacitance on alternating current circuits. Impedance, impedance matching, attenuators, filters, resonance phenomena. Transient currents. 1954 SPRING AND ALTERNATE YEARS. **Long.**

Geometric and Physical Optics 51.402

Advanced theory including thick lenses, types of mirrors, combinations of lenses and mirrors, apertures, nature and propagation of light, interference, diffraction, polarization, and double refraction. 1954 FALL AND ALTERNATE YEARS. **Heinrich.**

Laboratory Measurements¹ [1] 51.406

Intended to give the advanced student in science practice in precise physical measurements in the fields of mechanics and heat. One 3-hour laboratory session a week. 1953 FALL AND ALTERNATE YEARS. **Long.**

Laboratory Measurements² [1] 51.407

Precise physical measurements in the fields of sound and acoustics, optics, and modern physics. One 3-hour laboratory session a week. 1954 SPRING AND ALTERNATE YEARS. **Long.**

Modern Physics¹ 51.408

Selected topics in atomic and diatomic molecular structure including the Bohr atom, line spectra, energy states, fine structure, Zeeman effect, band spectra, relation of energy states to atomic and molecular structure. Introduction to Schrodinger technique of quantum mechanics. 1954 FALL AND ALTERNATE YEARS. **Long.**

Modern Physics² 51.409

Selected topics in nuclear and solid state physics including natural radioactivity and X-rays, the nuclear particles, fission and atomic energy, cosmic rays, semi-conductors, transistors. 1955 SPRING AND ALTERNATE YEARS. **Long.**

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

CATHERYN SECKLER-HUDSON
Chairman of the Department

PROFESSORS: Harold E. Davis; Catheryn Seckler-Hudson; Ernst Posner; William L. Reno; James J. Robbins.

ADJUNCT PROFESSORS: Helen L. Chatfield; Franklin G. Connor; W. E. Dewey; William R. Divine; Harold F. Gosnell; Brooke W. Graves; Clifton E. Mack; Fritz Morstein Marx; Rolland D. Severy; Oliver C. Short; Donald C. Stone; S. McKee Rosen; Carl Tiller.

ASSOCIATE PROFESSORS: George P. Bush; Lowell H. Hattery; Harold H. Roth; Samuel L. Sharp.

ASSISTANT PROFESSORS: William E. Biggs; Walter G. Held; Charles M. Hersh; Palmer C. Pilcher.

PROFESSORIAL LECTURERS: Karl M. Arndt; Charles H. Goodman; Frank J. Harris; John C. Honey; Eli Nobleman; Roy V. Peel; Aldo L. Raffa; Philip R. Rodgers; Hans Speier; O. Glenn Stahl; Earl Strong; James D. Teller; R. R. Zimmerman.

LECTURERS: Everett O. Alldredge; Herbert E. Angel; Kenneth P. Borgen; Richard G. Brown; Julius Cahn; Paul Camp; John M. Clarke; Joseph D. Cooper; Melvin D. Davidoff; W. Phillips Davison; Nicholas de Rochefort; Walter Fowler; Alexander George; Morris A. Greene; Howard K. Hyde; Walter O. Jacobson; Otto Kirchheimer; Martin Kriesberg; John W. Macmillan; John L. McGruder; Arnold Miles; Lyman Moore; E. E. Naylor; Lewis M. Nixon; John B. Olverson; Howard E. Page; John C. Shover; James C. Stephens; Eldon E. Sweezy.

BASIC COURSES

American Government:

National

53.200

Basic principles of the federal government; legislative, executive, administrative, and judicial organization and functioning; citizenship, elections, political parties, and interest groups; current activities and problems. FALL. SPRING. SUMMER. Clarke. Hersh. Pilcher. Rodgers. Roth.

American Government:

State and Local

53.201

The constitutional basis, organization and functioning of the three branches of state and local government; political parties and popular control of government; financial and personnel administration and functional services; problems of government in metropolitan areas; relationships of the states and

their political subdivisions in the federal system. FALL. SPRING. SUMMER. Graves. Pilcher.

American Government:

Municipal

53.300

A study of the organization of city and metropolitan government in the United States. Special emphasis on the adequacy of municipal governments to handle modern social and economic problems. Topics to be discussed will include: the legal position of cities; the organization, operation and evaluation of city administrative agencies; and special metropolitan problems. FALL. SPRING. SUMMER. Held. Pilcher.

Introduction to Public Administration

53.400

Principles of administrative processes pertaining to personnel, organization and man-

agement, planning and budgeting, public relations, and use of administrative power; major problems and issues; guide to the literature; application of principles to specific situations or areas. FALL. SPRING. SUMMER. Bush. Clarke. Pilcher. Roth.

The Process of Government in the United States 53.500

An intensive analysis of governmental processes with special emphasis on constitutional principles, individual rights, the process of policy determination, the problems of policy execution, the role of the judiciary, the problems of intergovernmental relations. *Prerequisite, graduate standing or consent of the department.* FALL. SPRING. SUMMER. Held. Reno.

Principles and Processes of Public Administration 53.501

Principles of the administrative process pertaining to personnel, organization and management, planning and budgeting, public relations, and the use of administrative power; major problems and issues; guide to the literature; application of principles to specific situations or areas. *Prerequisite, graduate standing or consent of the Department.* Not open to students who have had Introduction to Public Administration 53.400. FALL. SPRING. SUMMER. Hattery. Roth. Seckler-Hudson.

Evolution of Public Administration 53.502

Comparative historical study of development of administrative processes and institutions. Emphasis on development of the executive branch. Differentiation of functions into departments. Growth of the civil service. 1954 SPRING. Posner.

Technology and Administration 53.504

Emergence of the machine-power age. Transition from pre-industrial folk society to advanced technological urban civilization. Role, objectives, and methods of public and private administration. Implications of technology for international administration. Case illustrations. 1953 FALL. Rosen.

Technological Change and the Social Order 53.505

Consideration of interrelated social change. Role, objectives, and methods of major institutions. Emergence of machine-power age and transition from pre-industrial folk society to advanced technological urban civilization. Case studies to illustrate impact of technological development on government and control processes of government. Implications on the international order. 1954 SPRING. Rosen.

Development of Federal Administrative Institutions in the United States 53.508

An intensive examination of the origins and growth to World War I of Federal administrative institutions in the United States; administrative problems encountered; impact of personalities on problem solution; developing concepts and practices of public management; primary and secondary sources which are the major working tools of the administrative historian. 1952 FALL. McGruder.

POLITICAL THEORY

Evolution of Political Institutions 53.420

Analysis of major institutions with special reference to the shaping of the American tradition. Evolution of these institutions in their social and economic context. FALL. Reno. Robbins.

Early Political Theory 53.520

Examination of the contributions of main political thinkers from Plato to end of Middle Ages, with special emphasis on the ideological background of Western civilization. FALL. Reno.

Modern Political Theory 53.521

An examination of the contributions of main political thinkers from Machiavelli to the present time, with special emphasis on the concept of the state and its relation to culture and society. SPRING. SUMMER. Reno. Morstein Marx.

American Political Theory 53.525

Development and significance of political ideas that have influenced the institutional growth of the American system of government, with special emphasis on the 20th century. SPRING. Morstein Marx.

Contemporary Ideological Issues 53.620

The individual face to face with the machinery of modern government; his frame of values of civic behavior; political morality and personal ethics. *Prerequisite, a course in political theory or special permission.* FALL. Morstein Marx.

Seminar in Political Theory 54.720

FALL. Robbins.

GOVERNMENTAL PROCESSES**The Legislative Process 53.530**

An analysis of our lawmaking bodies with emphasis on the evolution and transition of their functions, methods, and procedures; relationships of Congress to the administrative branch of the Government and the Executive Office of the President; relationships of Congress to the Judiciary; evaluation of current recommendations for Congressional self-improvement, and a consideration of the future role of Congress in the area of public policy formation. FALL. SUMMER. Rodgers.

The National Executive 53.531

Analytical and historical study of the American Presidency as an institution of government and politics—its formal and informal objectives, authority, and powers; organization; operating techniques; and public relations. FALL. Roth.

The Judicial Process 53.532

Organization of the government for administration of justice and constitutional guaranty. Nature of the judicial process; organization and jurisdiction of federal and state courts. Review of civil and criminal procedure from overt act to final disposition. Judicial review; relations of bar to courts

and selection of judges. Relation of judiciary to legislative and administrative offices. SPRING. Nobleman. Olverson.

Legislative-Administrative Relationships 53.533

Analysis of relationships between legislative and administrative processes of federal government. Problems involved; limitations and potentialities of cooperative relationships in a democracy. SPRING. Roth.

Intergovernmental Relationships 53.534

An exploration of the relationships between the several units of government and between headquarters and the field offices. Emphasis on current issues and trends. SPRING. Honey. Roth.

Formation of Public Policy 53.630

Workshop for the study of formal and informal influences which condition the development and execution of public policy. Practical illustrations and case work. SPRING. Hattery. Seckler-Hudson.

Design of Legislation 53.631

Workshop in research and draftsmanship involved in the preparation of bills for introduction into Congress. Detailed study of the theory and mechanics of federal legislation. FALL. Cahn.

Seminar in Problems of American Government 54.730

SPRING. Reno.

PUBLIC LAW**Elements of Jurisprudence 53.550**

Principal theories of the nature and force of law; scientific method in law. Relation of the law to other modern social institutions. 1953 FALL AND ALTERNATE YEARS. Reno.

Comparative Legal Institutions 53.551

Development and growth of legal agencies since primitive times. Interrelations

between law and government. Early legal institutions of Europe and their influence on the modern judicial system. 1953 SPRING AND ALTERNATE YEARS **Reno.**

Administrative Law 53.552

General nature of administrative law; separation of powers and supremacy of law; types of administrative action and enforcement; analysis of rule-making and adjudication; administrative due process; the nature of judicial review; administrative procedure and the Administrative Procedure Act. FALL. **Biggs.**

United States Constitutional Development 53.555

The growth of the constitutional system of the United States; evolution of the basic principles of American constitutional law by judicial interpretation; the federal system and the constitutional relationships between legislative, executive and judicial branches of the national government. *Prerequisite, graduate standing or basic courses in American government.* FALL. **Robbins.**

United States Constitutional Law 53.556

The practice of constitutional government in the United States in terms of the basic principles of public law, examined topically; the federal system; national legislative, executive and judicial powers; judicial review of legislation; legislative power in the economic sphere; war powers, taxing and spending powers, constitutional limitations of governmental power arising from the contract clause, the Bill of Rights, and the Tenth and Fourteenth Amendments. *Prerequisite, a course in American government.* SPRING. **Robbins.**

Government Regulation of Business 53.536

Constitutional basis for regulation of business; analysis of various methods and types of business regulation; survey of areas of federal and state regulation in the public interest; statutory procedures for regulating transportation, security, transactions, monopolistic, discriminatory, and unfair trade

practices, rate-making, labor relations, banking and insurance, public utilities, etc.; present trends. SPRING. **Olverson. Robbins.**

Seminar in U. S. Public Law 54.750

FALL. **Reno.**

POLITICAL DYNAMICS

Government and the People 53.360

Analysis of the relationship of representative government to the citizenry. Survey of the channels of political activity. Study of the legislative and executive branches as responsive public institutions. Special nature of governmental public relations and reporting. FALL. SPRING. **Hersh.**

The Public and Administration 53.503

The nature and significance of administration in a modern democracy. Formation and role of pressure groups; interaction between the public and administration; problems of popular and group participation, clientele government, responsible administration and executive coordination. Case studies. FALL. SPRING. **Rosen.**

Theory of Public Opinion 53.560

Concepts of public opinion and propaganda; factors involved in its formation. Analysis and assessment of public opinion. Analysis of informal controls in politics and administration. Methods and techniques of group pressures; their relation to formal governmental policies; the nature and assessment of propaganda; problems arising from the activities of pressure groups and propaganda agencies. FALL. **Hattery. Kriesberg.**

Public Opinion Measurement 53.561

An analysis of methods of measuring public opinion; public opinion polling methods including questionnaire construction, sampling, interviewing and analysis of returns, statistical methods for studying election returns and other public opinion data; content analysis of mass communications with special reference to the press; methods of conducting research on radio and motion pictures; panel techniques. SPRING. **Gosnell.**

Political Parties and Electoral Problems 53.562

A critical examination of party processes and their articulation with the formal machinery of government. Problems to be studied include party organization; politicians and political leaders; human nature in politics; the spoils system; nominating systems; campaign methods and practices; conduct of elections and attending expenditures; current issues and trends in party politics; proposed improvements in American party system. FALL. Hersh. Gosnell.

Pressure Groups and Propaganda 53.563

An analysis of the informal controls in politics and administration. Methods and techniques of group pressures; their relation to formal governmental policies; the use of various media of communication by propagandist groups; factors conditioning public opinion and some of the problems arising from the activities of pressure groups and propaganda agencies. SPRING. Kriesberg.

Political Behavior 53.564

Study of human behavior in the political process. Nature of political power. Analysis of the role of political organization, political leadership, and citizen political activity in legislative and administrative situations. The public official in a political setting. Illustrative study of political behavior in one region of the United States. FALL. SPRING. Hersh.

Participation in Politics 53.565

Effective citizen participation in politics with emphasis on political campaigns from the local party organization to elections. Special study of campaigns in process, techniques of political propaganda, the use of media, and the campaign organization. Citizen participation in public policy formulation. SPRING. Peel.

Comparative Political Parties 53.566

Comparative analysis of the political party systems of Europe and other principal countries. 1953 FALL. Gosnell.

International Political Communication 53.660

The role of communication in the international political process, with special reference to problems of propaganda, and political warfare, in the cold war. Topics include: approaches to power and communications by western and Soviet leaders, leaders and masses as communications targets, limitations and uses of mass media and person-to-person communication, and problems of evaluation. FALL. SPRING. Robbins. Speier. Davison. George.

Seminar in Political Dynamics 54.740

SPRING. Hattery.

COMPARATIVE GOVERNMENT AND POLITICS

Comparative Government 53.370

Comparative analysis of the presidential, parliamentary, plural executive, and one-party systems of national government, with emphasis on the governments of western Europe. FALL. SPRING. Bradshaw. Robbins.

Government and Politics of Western Europe 53.570

A comparative analysis of the political systems of Great Britain, France, Switzerland and Scandinavia; their historical evolution and current operation; trends and problems in postwar political organizations in these countries. FALL. de Rochefort.

Government and Politics of Central Europe 53.571

Comparative analysis of the political systems of Central Europe. The breakdown of democracy and the rise of dictatorship. Current problems and trends in modern government. 1952 FALL AND ALTERNATE YEARS Kirchheimer. Sharp.

Government and Politics of Eastern Europe 53.572

Formal framework and political content of government institutions in the Soviet

orbit. History and philosophy of political institutions in Poland, Czechoslovakia, Yugoslavia, Bulgaria, Hungary, and Rumania. Theory and practice of the "New Democracy." Influence of Soviet theory and pressure of Soviet interests. 1953 SPRING. **Sharp.**

Government and Politics of Soviet Russia and Eastern Europe 53.573

Basic theories of communism; factors underlying the creation of the Soviet Union; the evolution of the Soviet system; the organization and operation of the Soviet Government; current problems in the relations of the Soviet Union with other countries; brief survey of the political systems of the Eastern European countries and a comparison of them with the system of the Soviet Union. FALL. SUMMER. **Sharp.**

Government and Politics of the Far East 54.574

Development, organization, and functions of government in China, Japan, Philippines, Siam, Burma, Hindustan, and Pakistan. Economic, political, cultural, and regional relationships. SPRING. **Brown.**

Government and Politics of Latin America 53.575

Factors influencing political life, characteristics of political behavior, constitutions and constitutional issues, federal and unitary states, the presidency, legislatures and legislation, the judiciary, the political parties, electoral systems, budgets and budget-making, trends in social and economic legislation. SPRING. **Davis.**

Government and Politics of the British Commonwealth 53.576

The constitutional basis of the United Kingdom. Political relationships and trends. SPRING. **Reno.**

Problems of Government in Great Britain and France 53.577

Examination of British and French experience with representative problems of gov-

ernment such as economic planning and controls, nationalization of industry, extension of social services and the welfare state, European political and economic collaboration, conflicts in political ideology, proposed reform of the British House of Lords, and cabinet stability in France. SPRING. **de Rochefort. Robbins.**

Leaders of Latin American Thought and Politics 53.578

Study of the biographies of representative Latin American statesmen and leaders of thought, and their historical background, as a basis for the analysis of problems of political leadership. SUMMER. **Davis.**

Seminar in Comparative Government 54.770

SUMMER. **Robbins.**

STATE AND LOCAL GOVERNMENT

Current Problems in State and Local Government 53.580

Trends and issues in states and municipalities; problems of coordination in the American federal system. SUMMER. **Hersh. Pilcher.**

Comparative Local Government and Administration 53.581

Comparative study of local governments in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland, and the countries occupied after World War II. Emphasis on contemporary situation. SPRING. **Raffa.**

Local Government Planning 53.585

Problems involved in developing and executing planning in urban communities. Composite essentials, obstacles. Tasks of administration. 1953 FALL.

City Management in the United States 53.586

The principles and practices of administering the governmental functions in urban life with emphasis on the role of the ad-

ministrator. A discussion of modern concepts and methods of administration, and of current problems in the application of scientific management to local government. SPRING. Held.

Municipal Financial Administration 53.587

A study of current developments in the administration of fiscal functions in American cities, including budgeting, treasury management, accounting and auditing. Special emphasis on trends in organization and methods. 1953 FALL AND ALTERNATE YEARS. Held.

Government and Administration of Metropolitan Washington 53.588

A study of the government of metropolitan Washington in terms of its adequacy in meeting social, economic, and political problems and issues of the community. Comparative analysis with other metropolitan administrations. Special emphasis on the integration of administration and planning in a metropolitan area. FALL. Fowler.

Municipal Problems: District of Columbia 53.589

Analysis of the federal city with attention to problems arising from municipal-federal jurisdiction, dominance of governmental activity rather than industry. Significance of rapid population shifts and other factors in planning. SPRING. Fowler.

Seminar in Municipal Government and Administration 54.780

SPRING.

BUDGETARY ADMINISTRATION AND FISCAL POLICY

Public Budgeting 54.410

A descriptive and analytical study of governmental budgeting in the United States, with special reference to its significance and development. The differing characteristics of the federal, state and local systems. Em-

phasis upon processes and problems involved. FALL. SPRING. SUMMER. Pilcher.

Budgeting: An Instrument of Planning and Management 54.510

Theory and principles of budgeting in the modern state. The evolution of federal budgetary administration in the United States, relationships to federal fiscal policy and the national economy, problems of federal budgeting and current trends. *Prerequisites, a basic course in public administration or experience in the field.* Permission of the instructor is required for registration. FALL. SPRING. Seckler-Hudson.

Federal Budgetary Procedure 54.511

A study of processes and procedures involved in federal budgetary administration primarily from the standpoint of the operating agency. The problems arising in the preparation of the budget estimates and justification of the estimates before the Bureau of the Budget and Congress; techniques in the formulation and execution of the agency budget. *Prerequisite, a general course in administration or experience in budgeting.* SPRING. SUMMER. Moore.

Federal Fiscal Policy 54.512

Examination of over-all budgetary magnitudes in relation to full employment levels of national income will be followed by consideration of problems raised by European aid, public welfare, national defense, public debt, and other expenditures, and in the revenue field, by personal income, business, estate and consumer taxation. FALL. Arndt.

Governmental Supply Management 54.513

Principles, policies, and methods applicable to the purchasing of supplies, materials and equipment for use in governmental agencies. Supply procedures, the preparation of commodity specifications and the making of purchase contracts. Relationship of supply management to administrative management. *Prerequisite, a general course in administration or experience in purchasing.* FALL. Mack.

Problems of Accounting in the Federal Government 54.514

A comprehensive presentation of federal fiscal administration and procedure with special emphasis on the role of governmental accounting. The progress that has been made recently toward improving the accounting system, and current major problems. Emphasis on relationship to budgetary management and fiscal policy. *Prerequisite, a course in accounting or experience in the field.* SPRING. Tiller.

Comptrollership and Public Budgeting 54.515

Analysis of the role of the comptroller in public budgeting, including dynamics and institutional setting, organization and functions, operational relationships, management analysis and assistance, operating problems, and procedural implementation of comptrollership. FALL. Borgen. Naylor. Seckler-Hudson.

Problems in Public Budgeting 54.610

Trends, problems, and issues in public budgeting. *Prerequisite, a basic course in budgeting or experience in the field.* SPRING. Seckler-Hudson.

Seminar in Budgetary Administration 54.710

An advanced seminar for graduate students interested in special research projects in the field of federal budgetary administration. FALL. SPRING. Seckler-Hudson.

ORGANIZATION AND MANAGEMENT

Organization and Management 54.420

Organization as a means of achieving known ends. Processes and principles involved in securing and utilizing authority, establishing and operating appropriate structures, planning and evaluating policies and aims, balancing programs and activities in terms of total policies, budgeting available resources, seeking leadership and staffing the organization. FALL. SPRING. Bush. Roth.

Administrative Organization 54.421

Development and present structure and function of the administrative organization of the federal government. Overhead management, the departmental system, the field service, the continuing problems of administrative reorganization. FALL. SPRING. Roth.

Psychology of Management 54.520

Study and application of psychological principles relating to modern administrative management. The significance of understanding individual and group behavior, abilities, and attitudes. Special emphasis on the role of psychology in both public and private administration. FALL. Goodman.

Human Relations in Management 54.521

The application of the principles of the scientific method to human relations in work situations. An examination of recent and current research in the field and informal discussion with regard to practical application to government and industrial organization. *Prerequisite, formal course work or experience in administration.* FALL. Macmillan. Niles. Page. Zimmerman.

Human Relations in Management: Advanced 54.522

Advanced course in the application of principles of scientific method to human relations in work situations. *Prerequisite, formal course work in administration or experience in the field.* SPRING. Jacobson. Macmillan. Niles. Page. Zimmerman.

Development of Scientific Management 54.523

Review of the development of scientific management; contributions of Taylor, Gantt, Gilbreth, Emerson, Barth, and others. Application and adaptation of principles of scientific management in public administration. Review of criticisms of the philosophy of scientific management; evaluation of the significance of scientific management and current trends in industry and government. FALL. Hyde.

Comparative Public Administration **54.524**

A comparative study of the administrative process in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland and the occupied countries of Europe with particular emphasis on the more recent developments, including the effect of American aid programs and the current attempts at closer economic collaboration among the western European states. FALL. SUMMER. **Raffa.**

Planning in Government **54.525**

Theory, purpose, processes and techniques of program planning in government. Planning organizations and mechanisms in government with attention to the accomplishments and limitations of federal planning experience. Some comparative study of planning at other government levels in the United States. FALL. **Honey. Seckler-Hudson.**

Office Management and Control **54.526**

Principles of organization and management applied to the office situation. Supervision of clerical operations. Correspondence systems. Preparation and the use of forms. Office equipment. Filing systems and equipment. Space requirements and allocations. Training and development of clerical and office services workers. FALL. SPRING. SUMMER. **Aldredge. Angel. Dewey.**

Work Simplification and Work Measurement **54.527**

Methods of simplifying office work used by analysts and line operators; the limitations of work simplification. The development of standards of measurement in government agencies and in industry; uses of work measurement data. The relative merits and the relationship of work simplification and work measurement. FALL. SUMMER. **Cooper. Divine.**

Production Planning and Control **54.528**

Principles of production planning and control in government. Planning flow of office paper work, controlling flow of work,

controlling quality of work, and adjusting for human factors. Discussion of case histories in industry and government. SPRING. **Cooper. Divine.**

Organizing the Government for War **54.529**

Problems involved in organizing the government for possible total war, including the nature of total war; relationship of civilian and military authority; temporary vs. permanent agencies; centralization of war control and direction. Specific problems such as stabilization, labor, production, distribution. SPRING. **Reno.**

Administration of Government Research **54.530**

Unique problems in application of principles and processes of administration to government research activities in natural, physical, and social sciences. SPRING. **Hattery.**

Management Problems of International Agencies **54.531**

Peculiar problems of management in international agencies with special attention to staffing, budgeting, directing, planning, authorizing, operating, and public relations. Significance of coordination, communication and leadership. Interpersonal relationships. The place factor. FALL. **Greene.**

Problems in Government Reorganization **54.532**

Problems in analyzing, planning, and effecting reorganization of executive agencies. Assessing the effectiveness of reorganization. SPRING. **Miles.**

Organization and Management: Advanced **54.620**

Organization as a means of achieving known ends; systematic study of the principles and processes involved in organizing and managing large and complex establishments; development of systematic criteria for use in evaluating an organization; evaluation of leading literature in the field; prac-

tical application and illustrations. Permission of the Chairman of the Department is required for registration. FALL. SPRING. Seckler-Hudson.

**Psychology of Management:
Advanced 54.621**

Special case work in the application of psychological principles relating to modern administrative management. *Prerequisite, Psychology of Management 54.520 or the equivalent.* SPRING. Goodman.

**Applied Administrative
Management 54.622**

A seminar for administrators, operating officials and staff officers. Government reform and the development of the analytical approach. The diagnosis of administrative ills; methods of improving administration; organizational and procedural problems; the techniques of administrative analysis; proposals for improvement and their installation. Permission of the chairman of the department is required for registration. FALL. Miles. Stone.

**Applied Administrative
Management: Advanced 54.623**

A seminar for administrators, operating officials and staff officers. Federal reorganization programs appraised. How executives and operating officials can bring about administrative improvements. The role and methods of staff agencies in improving management. How to cope with human factors and environmental obstacles to effective management. International developments. Permission of the chairman of the department is required for registration. SPRING. Miles. Stone.

**Executive Leadership in
Government 54.624**

Qualifications for executive leadership in government; identification of executive talent; techniques of executive leadership and their development. Relationship of leadership to policy formation, decision-making, and operations. Patterns of organization influencing leadership. Designed for persons

in leadership positions. SPRING. Hattery. Seckler-Hudson.

**Seminar in Research
Administration 54.785**

An advanced seminar for graduate students interested in application of administrative principles to research situations. Individual projects. SPRING. Hattery.

**Seminar in Organization and
Management 54.725**

SPRING. Bush. Hattery. Seckler-Hudson.

**RECORD AND ARCHIVES
ADMINISTRATION**

**Management of Government
Records 54.440**

Designed to aid the student to gain a basic knowledge of work with records and files. Topics to be discussed include history, organization, and functions of record offices and archival agencies; origin and nature of documentary material; reference service. Open to persons familiar with the mechanics of record work and to others with permission of the Instructor. 1953 FALL. Chatfield.

**Organization and Procedure for
Handling Government Records 54.441**

Examination of performance of record function in government agencies through organization and procedure in various offices of origin as well as on agency-wide basis. *Prerequisite, Management of Government Records 54.540 or record work experience.* 1952 FALL AND ALTERNATE YEARS. Chatfield.

**Arrangement, Classification, and
Indexing of Government Records 54.442**

Among the topics dealt with are the organization of reference units; systems of arrangement, classification, and coding of record material and the preparation of indexes and other finding aids. Open to students who have had the basic course in

Management of Government Records 54.441 or experience in record work. 1954 SPRING AND ALTERNATE YEARS **Chatfield.**

Management of Special Types of Government Records 54.443

Consideration of special types of government records in relation to problems they cause in record keeping such as personnel, accounting, public relations, and statistics. *Prerequisite, Management of Government Records 54.540, or record work experience.* 1953 SPRING AND ALTERNATE YEARS. **Chatfield.**

History and Administration of Archives: Backgrounds 54.542

History and present state of archival activities in the principal countries of the world, especially those in the United States, including state, local, and institutional as well as federal activities; principles and practices of archives administration. Prospective students should consult the instructor. FALL. **Posner.**

History and Administration of Archives: Principles and Techniques 54.543

Principles and techniques of archival administration. Practical instruction in appraising, arranging and describing records. Visits to different divisions of the National Archives, and if desired by a sufficient number of students, to an archival agency, outside of Washington, D. C. A continuation of History and Administration of Archives 54.542 but open to new students with permission of the instructor. SPRING. **Posner.**

Documentation in Management 54.640

Relation of management to documentation. *Prerequisite, permission of instructor.* 1953 FALL AND ALTERNATE YEARS. **Morstein Marx.**

Treatment of Subject Matter in Record Administration 54.641

Study and analysis of record material for purpose of building classification and

arrangement patterns effectively to meet reference needs not only of officials responsible for the day-to-day operations but also of staff and policy determining officials. Course designed for record officers, record analysts, archivists, and others responsible for the administration of record function and activity. *Prerequisite, permission of instructor.* 1954 SPRING AND ALTERNATE YEARS. **Chatfield.**

PERSONNEL ADMINISTRATION

Introduction to Public Personnel Administration 54.450

A basic survey course dealing with the historical backgrounds and development of public personnel administration at the national level; an examination of structure, principles and major procedures including relationships of personnel to other staff and to line elements. FALL. SUMMER. **Bush. Short.**

Supervision in Administration 54.451

Development of supervisory relationships in government and industry; supervisory functions and responsibilities; areas of supervisory action; methods and tools of supervision; present problems and trends. FALL. **Sweezy.**

Personnel Psychology 54.550

Techniques of employee selection, placement, and evaluation, including aptitude and achievement tests, rating methods, the interview; motivation and morale factors in the work situation; analysis of problems of fatigue and efficiency, accidents, and personnel rating. *Prerequisite, an introductory course in psychology; background in statistics recommended.* FALL. SPRING. **Davidoff. Harris.**

Problems in Public Personnel Administration 54.551

Consideration of personnel administration as integral part of management. Relationship of personnel and other staff officers and line operating officials. Clarification of principles. Problems, processes, and procedures related to management. Current developments. SPRING. SUMMER. **Hattery. Short.**

Formulating Personnel Policies and Procedures 54.552

Fundamentals of a government personnel program and its relationship to federal and civil service policies. Philosophy underlying such policies; techniques of formulation, and appropriate methods of presentation. Relation of operating procedures to fundamental policy; procedures used by operating officials compared with procedures in centralized and decentralized personnel organizations. SPRING. **Camp.**

Selection and Placement 54.553

Methods of surveying an organization's manpower needs, selection processes and techniques, interview techniques, initial placement and internal placement. Particular emphasis on manpower utilization, inventories of employees' skills and reduction in force. The operating relationship between the placement office and other staff and line organizations. FALL. SUMMER. **Camp.**

Position Classification 54.554

Position classification viewed in relation to governmental administration as a whole. Problems and methods of coordinating position classification operations with management processes of budgeting, planning, organizing, and staffing. Emphasis upon the development and administration of position classification plans in the public service. Contemporary methods of position analysis and evaluation in private industry, local, state and international agencies are discussed along with those in federal civilian and military services. FALL. **Severy.**

Training in the Public Service 54.555

An analysis of the principles, programs, and practices in organizing, developing, conducting, and evaluating training programs. Intended for training and operating officials, their staff members, and those preparing for such responsibilities. SPRING. **Raffa.**

Employer-Employee Relations in Government 54.556

Objectives of management and workers projected on psychological background.

Motivation. Development of administrative policy. Methods and techniques for promoting desirable relations between employer and employees on the job. SPRING. **Nixon.**

Counseling in Public Management 54.557

Psychological factors of counseling; general principles underlying the counseling relationship; methods and facilities of various types of counseling, including supervisory, employment, placement, vocational and personnel service counseling. Limitations of counseling. Qualifications of counselors. Application to specific problem situations by discussion and demonstration. SPRING. **Nixon.**

Employee Evaluation: Performance Standards and Ratings 54.558

Problems in rating employee performance. Comparison of proposed solutions. Principles and techniques for developing performance standards. Use of performance standards in rating employee performance. Planning for employee development on basis of data obtained from performance ratings. Performance ratings as criteria for validating other techniques of employee evaluation. 1952 FALL. 1954 SPRING. **Teller.**

Employee Evaluation: Testing and Measuring 54.559

Basic concepts of achievement, aptitude, personal traits and interests testing; procedures used in scientific test construction; types of tests; administering and scoring paper-pencil tests; administering and scoring performance tests; basic concepts of test standardization and validation essential for employee analysts; problems in test interpretation; using tests in the employee evaluation program. 1952 SUMMER. 1953 FALL. **Teller.**

Employee Evaluation: Qualifications Analysis 54.560

Definition and scope of qualifications analysis; relation of qualifications analysis to job analysis; relation of qualifications analysis to psychology; psychological categories for use in qualifications analysis; principles

and problems of qualifications analysis; recording qualifications in job specifications; using job specifications in the employee evaluation program. 1953 SPRING. 1954 SUMMER. **Teller.**

Employee Evaluation: Interviewing and Personnel Data Analysis 54.561

Principles of interviewing; types of interviews; planning, conducting and interpreting the interview; the standard interview; group interviewing methods; obtaining personal history data by the use of application blanks, reference vouchers, personnel records, and biographical information inventories; analyzing personal history data in relation to job requirements; systems for rating education and experience; validating the interview and interpretations of personal history data; using the interview and personal history data in the employee evaluation program. 1953 SUMMER. **Teller.**

Problems in Military-Civilian Management 54.562

Adapting personnel and other management principles to the military-civilian work situation. Techniques for developing mutual understanding and teamwork. FALL. **Bush.**

Trends in Personnel Management 54.663

A seminar for students interested in current trends and issues in the field of personnel management. Consideration of the interrelationships of public and private personnel. Individual projects selected jointly by the student and the instructor. *Prerequisite, formal course work in personnel management or training and experience in the professional aspects of the field.* FALL. SPRING. **Stahl.**

Current Problems in Manpower Utilization 54.664

Effective methods in manpower utilization in terms of the national manpower supply and demand. Such factors as job rebuilding, training, transfer, and incentives will be considered. Special attention to importance of group problems and group in-

terests. Emphasis on government with comparisons from industry. FALL. SPRING. **Shover.**

Methods of Public Personnel Research 54.665

Study and analysis of research methods in the field of personnel. An individual research project will be conducted by each member of the class to gain experience in planning, conducting and reporting a research project. FALL. **Strong.**

Seminar in Employee Evaluation 54.755

SPRING. **Teller.**

Seminar in Personnel Administration 54.760

FALL. SPRING. **Bush. Hattery.**

INSTITUTES

Institute for Teachers of Government and Administration (no credit) 31.050

A two-week program offered with the cooperation of the American Political Science Association to provide an opportunity for teachers of government and administration to confer with leaders on the national scene about current topics; and to explore the resources of the Nation's Capital for the enrichment of political science teaching and research. SUMMER. **Hattery. Roth.**

Institute on Administration of Scientific Research and Development (no credit) 31.051

A five-day program offered with the cooperation of the National Research Council and the American Association for the Advancement of Science to present advanced thinking and practice in the administration of research and its application. For persons engaged in the administration of research and its application. Others may be admitted with the permission of the Institute Director. FALL. **Bush. Hattery.**

**Institute on Attitude Surveys and
the Federal Agencies (no credit)**
31.052

An intensive, full-time program to explore current experience and thinking in the use of opinion and attitude research by government agencies. FALL. Hattery.

**Institute in the Preservation and
Administration of Archives** 31.550

Intensive workshop offered with the cooperation of the National Archives and Records Service, the Library of Congress, and the Maryland Hall of Records. Program planned to familiarize students with most important phases of work with records and manuscripts and to give practical experience in field by doing internship work with cooperating agencies. SUMMER. Posner.

INTERN PROGRAMS

**Washington Semester: Seminar in
Governmental Processes** 54.498

A program for advanced students from the University and cooperating institutions. Directed study of government in action. Reports, conferences, lectures, group and individual visits to governmental agencies and other organizations. Enrollment restricted to those approved by the faculty committee. FALL. SPRING. Biggs. Hattery.

**Washington Semester: Individual
Projects** 54.499

Analytical reports prepared in consultation with advisors on the operations of a particular governmental problem or agency. For advanced students from the University and cooperating institutions. Enrollment restricted to those approved by the faculty committee. FALL. SPRING. Biggs. Hattery.

Problems in Public Administration
54.591

A seminar for the Fourth Junior Management Intern Program. Lectures and discussions by leading authorities and government officials. Analysis of current issues in public policy and problems in public administration. Advanced reading and written reports. FALL. SPRING. Connor.

**Public Administration Intern
Colloquium** 54.592

Seminar for Department of the Navy interns. Lectures and discussions. Administrative case studies and advanced reading and written reports. FALL. SPRING. Stephens.

**Seminar: Public Administration
Interns [6]** 54.593

Problem seminar for Public Administration Interns oriented to work assignments and related areas of administration. FALL. SPRING. Hattery. Seckler-Hudson.

Public Affairs Laboratory [6]
54.692

Field study of public affairs through group conferences with leading legislative, administrative, and other officials. Problems of policy, management, and organization. Reports on field conferences and demonstrations. SUMMER. Hattery. Hersh.

RESEARCH AND READING

**Tutorial Reading Course in Public
Administration** 53.401

SUMMER. Bush.

**Research Methods in Government
and Public Affairs** 53.507

Principles of research; the scientific method; planning the research project; use of research tools; techniques of documentation. Research methods of the social sciences applied to political data, including the historical, analytical, survey, case and other methods, with special emphasis on precise methods. FALL. SUMMER. Hersh.

**Research Seminar in Latin American
Governments (no credit)** 54.070

Post-doctoral seminar for persons interested in research problems in Latin American governments. Inquiry into definition of significant problems for research, methodology, and bibliography. FALL. Davis.

In-Service Training Projects 54.691

Study and research projects may be undertaken by a limited number of properly qualified persons as an integral part of their degree programs, in fields related to their official duties in governmental or private agencies. Supervised jointly by the faculty of the school and officers in the agencies in which the students are employed. Registration is subject to the approval of the departmental chairman concerned and the graduate dean. FALL. SPRING. SUMMER.

Public Administration case Study Research 54.692

A research project in which the principles of public administration are applied to a specific organizational unit. *Prerequisites, candidacy for an advanced degree in public administration.* FALL. SPRING. SUMMER. Seckler-Hudson.

Seminar in Applied Research Methodology 54.790

An advanced seminar for graduate students interested in the application of research methods to a particular problem or situation. Individual projects. FALL. *Hattery.*

Current Problems in State and Local Government: Reading Course 53.580

Trends and issues in states and municipalities. Problems of coordination in the American Federal system. Permission of the Instructor is required for registration. SUMMER. *Held.*

Thesis Seminar in Political Science and Public Administration 54.799

For candidates for higher degrees in political science and public administration. FALL. SPRING. SUMMER. *Seckler-Hudson.*

PROFESSIONAL INSTITUTES

L. M. HOMBERGER

Director, Division of Professional Institutes

PROFESSORS: Samuel E. Burr, Jr.; Ludwig M. Homberger;
Fritz Karl Mann; Ernst Posner; Charles K. Trueblood.
ASSOCIATE PROFESSORS: Nathan Bailly; George P. Bush;
Lowell H. Hattery; Harold H. Roth.
LECTURER: Meredith B. Colket, Jr.

BUSINESS ADMINISTRATION

**Institute on Employee
Communication (No Credit) 31.001**
Fee: \$80.00. SPRING. Bailly.

ECONOMICS

**Institute of Industrial Transportation
and Traffic Management
(No Credit) 31.020**
Fee: \$100.00. FALL. Homberger.

**Air Transportation Institute
(No Credit) 31.021**
Fee: \$100.00. FALL. Homberger.

**Rail Transportation Institute
(No Credit) 31.022**
Fee: \$125.00. SPRING. Homberger.

**Institute on Federal Taxes
(No Credit) 31.023**
Fee: \$25.00. FALL. Mann.

**Foreign Transportation Institute
(No Credit) 31.025**
Fee: \$100.00. SPRING. Homberger.

HISTORY

**Institute of Genealogical
Research (No Credit) 31.030**
Fee: \$50.00. SUMMER. Colket.

INTERNATIONAL RELATIONS AND ORGANIZATION

**Institute on the Position of the
United States in World Affairs
[4-6] 31.540**
Fee: \$80.00. SUMMER. Burr.

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

**Institute for Teachers of Government
and Administration (No Credit) 31.050**
Fee: \$35.00. SUMMER. Hattery. Roth.

**Institute on Administration of
Scientific Research and
Development (No Credit) 31.051**
Fee: \$35.00. FALL. Bush. Hattery.

**Institute on Attitude Surveys and the
Federal Agencies (No Credit) 31.052**
Fee: \$18.00. FALL. Hattery.

**Institute in the Preservation and
Administration of Archives 31.550**
Fee: \$50.00. SUMMER. Posner.

PSYCHOLOGY AND EDUCATION

**Institute on Human Relations and
Intergroup Understanding [2] 31.561**
Fee: \$24.00. SUMMER. Trueblood.

PSYCHOLOGY

JOHN E. BENTLEY and CHARLES K. TRUEBLOOD (Acting)
Chairmen of the Departments

PROFESSORS: Ralph Bedell (Chairman at the School of Social Sciences and Public Affairs, on leave of absence February 1952-February 1953); John E. Bentley; Charles K. Trueblood; Ellis Weitzman.

ADJUNCT PROFESSORS: Lloyd E. Rackley; Karl T. Waugh.

PROFESSORIAL LECTURERS: Albert C. Cornsweet; John Endacott; Joseph Samler.

LECTURERS: Albert D. Annis; Beatrice J. Dvorak; Harold Goldstein; Rolfe L. Hunt; Gordon L. Lippitt; Melvin R. Marks; John P. Mundy; Alice C. Neff; Evan G. Pattishall; Ernest S. Primoff; Norman Taub; Robert N. Walker; George D. Weickhardt; Homer G. Wood.

BASIC COURSES

General Psychology 57.200

Introduction to the fields and methods of psychology. Study of the factors which influence human development and action, including individual differences in aptitude, intelligence, motivation and emotion. *Course prerequisite to all other offerings in the department.* FALL. SPRING. SUMMER. Bentley. Waugh. Trueblood.

Experimental Psychology: Receptive Processes 57.300

Experimental study of the psychological bases of behavior and the receptive processes: vision, audition, touch, taste, smell, and the motor and organic sense. One hour of lecture and discussion and four hours of laboratory each week. Required of students majoring in psychology. *Recommended prerequisite, Fundamentals of Statistics 69.200.* FALL.

Experimental Psychology: Behavior Processes 57.301

Experimental study of behavior reflexes, learning, perceptual response, memory, emotion, and thinking. One hour of lecture and discussion and four hours of laboratory each

week. Required of students majoring in psychology. *Prerequisite, Experimental Psychology 57.300.* SPRING.

Applied Psychology 57.302

Applications of psychology in the fields of human relations, mental health, increasing human efficiency, and the selecting and training of personnel. *Prerequisite, General Psychology 57.200.* FALL. SPRING. SUMMER. Bentley. Samler.

Group Dynamics and Administrative Principles 57.305

Survey of important developments in the field of group dynamics. Analysis of the principles of face-to-face group functioning. Class discussion, small group projects, and individual research projects. SPRING.

Psychology of the Child 57.400

Growth through infancy and childhood, with emphasis on emotional behavior, intelligence, learning, and social development. 1952. FALL AND ALTERNATE YEARS. Bentley.

Psychology of the Adolescent 57.401

The physical, mental, and social growth of the adolescent with special consideration

of the psychological bases of adolescent behavior. 1953 SPRING AND ALTERNATE YEARS. Bentley.

Introduction to Social Psychology 57.404

Influences of group structure and dynamics upon the psychological development of the individual. The social environment in relation to individual adjustment. FALL. SPRING. Trueblood.

ADVANCED COURSES

Advanced General Psychology 57.500

Critical overview of the major problems, methods, and research findings in the field of psychology. A basic course for all students interested in further work in psychology. *Prerequisite, one year of work in psychology or permission of the instructor.* FALL, ALTERNATE YEARS.

Advanced Experimental Psychology 57.501

Critical survey of the experimental investigations in the major areas of psychology. One or more experiments designed and conducted by each member of the class. *Prerequisite, Experimental Psychology 57.301 or permission of the instructor.* SPRING. ALTERNATE YEARS.

Physiological Psychology 57.502

The action systems of the human body with special consideration of the research literature in the psychology of vision, audition, cutaneous sense, the chemical sense, space perception, reflexes, and the physiological correlates of emotion and motivation. *Prerequisite, Experimental Psychology 57.301 or permission of the instructor.* SPRING, ALTERNATE YEARS. Trueblood.

Theoretical Systems of Psychology 57.503

The systems and concepts of psychology involving consciousness, function, behavior, purpose, dynamism, and gestalt as they appear in the history of psychological thought.

Prerequisite, one year of work in psychology or permission of the instructor. FALL, ALTERNATE YEARS. Bedell. Bentley. Weitzman.

Psychological and Educational Measurements: Group 57.504

The construction, administration, and interpretation of group tests of intelligence, aptitude, achievement, interest, and personality. *Prerequisite, one year of work in psychology or education.* FALL. Weitzman.

Psychological and Educational Measurements: Individual 57.505

Representative tests of intelligence and personality that require individual administration. Extensive laboratory practice in the administration, scoring and interpretation of these tests. *Prerequisite, permission of the instructor.* SPRING. Weitzman.

Abnormal Psychology 57.506

Deviations from normal behavior. Neurotic, psychotic, and psychopathic personality. Disorders of sensation, perception, memory, motor control; psychology of functional mental disorders. Principles of psychotherapy. FALL. Bentley. Rackley.

Mental Hygiene 57.507

Processes people employ in making everyday adjustments. Emphasis on methods of maintaining sound mental health, and the development of mature behavior. SPRING AND ALTERNATE SUMMERS. Samler.

Psychology of the Adult 57.508

Critical survey of principles and research studies relating to the behavior of mature individuals. Emphasis given to psychological needs, group behavior, and occupational fitness of adults. SPRING. Lippitt.

Psychology of Advertising 57.509

Psychological principles underlying successful advertising and selling efforts. Consumer motivation and buying habits. Methods and results of experimental investi-

gations in the advertising field. *Prerequisite, General Psychology 57.200 and Principles of Advertising 11.430, or permission of the instructor.* Not offered in 1952-1953.

Dynamics of Group Behavior: Fundamentals 57.515

Inter-personal relations in group situations. Causal factors in group functioning examined along with functional roles in groups. Group structure studied in terms of various sociometric factors. FALL. Lippitt.

Marriage Relations 57.516

Identification and psychological analysis of the factors of harmonious and stable marriage relations. For teachers, social workers, ministers, lawyers, college graduates, and other qualified persons interested in the problems of marriage relations. *Prerequisite, permission of the instructor.* FALL. Trueblood.

Psychiatry in Nursing: Lectures 57.560-61

Description and dynamics of behavior in mentally ill people. Relationship of emotionally disturbed reactions to personality. *Prerequisite, Abnormal Psychology 57.506 or equivalent.* FALL AND SPRING. Taub.

Neurology [2] 57.563

Anatomy and physiology of the nervous system. Clinical presentation of patients with neural disease and consideration of their treatment. SPRING. Weickhardt.

Seminar in Psychiatric Nursing [4] 57.566-67

A two-session course. Discussion of nursing applications of cases presented in clinical conferences. Coordination of the several aspects of clinical experience through group discussion and solution of problems. Review of current literature. An individual study on a phase of psychiatric nursing is prepared by each student. FALL AND SPRING. Neff.

Psychiatry in Nursing: Conferences 57.570-71

Clinical conferences, case presentations, and actual contact with patients in psychiatric wards. This course may be taken concurrently with, or subsequent to Psychiatry in Nursing 57.560. FALL AND SPRING. Taub.

Clinical Psychology 57.600

Survey of the methodologies of clinical psychology including practical uses of psychometrics, psychotherapies, and case studies. *Prerequisite, one year of work in psychology or permission of the instructor.* SPRING. Rackley.

Behavior Problems in Childhood 57.520

Psychological bases for normal and deviate behavior in children. Childhood problems from the standpoint of the psychologist. FALL. Lippitt.

Behavior Problems in Adolescence 57.521

Psychological bases for normal and deviate behavior in adolescence. Study of adolescent problems from the standpoint of the psychologist. SPRING. Lippitt.

Psychology of Personality 57.523

Development of wholesome personality. Individual traits, individual differences, and modifications of behavior patterns in the human personality. Critical evaluation of research. Discussion of theories of personality. SPRING. Cornsweet.

Institute on Human Relations and Intergroup Understanding [2] 31.561

SUMMER. Trueblood.

Advanced Social Psychology 57.604

Psychological factors in human social behavior. Psychological consideration of cultural and social processes. Survey of the research on public opinion, propaganda, race prejudice, industrial conflict, and interna-

tional tensions. *Prerequisite, permission of the instructor.* FALL. SPRING. SUMMER. Endacott. Trueblood.

**Dynamics of Group Behavior:
Advanced 57.605**

Theory of group dynamics. Inquiry into basis for philosophy of leadership as it relates to group action. Attention to group problem solving methodology and techniques of good group functioning. *Prerequisite, Dynamics of Group Behavior: Fundamentals 57.515.* SPRING. Lippitt.

Problems in Test Construction 57.606

Preparation, use, and interpretation of educational and psychological tests. Each student specializes in test construction problems in his particular field of application. Course may be elected for credit either in psychology or in education. *Prerequisite, one course in psychological or educational measurements.* SPRING, ALTERNATE YEARS. Weitzman.

**In-Service Training Project in
Psychology 57.691**

**Practicum in Test Construction
[6] 57.790**

Practical problems in test construction. Each intern files complete report of his activities and findings. Internship ordinarily in process from December 1 through following June 30. *Prerequisite, permission of the chairman of the department.*

Seminar in Psychology 57.798

Directed research, reports, and discussion on selected problems in various fields of psychology. FALL. SPRING.

**Thesis Seminar in Psychology
[6] 57.799**

Preparation of the thesis for the Master of Arts degree with a concentration in Psychology. Bedell. Trueblood. Weitzman.

PUBLIC RELATIONS

WILLETT KEMPTON

Director of the Area in the Department of Communication

ASSOCIATE PROFESSOR: Willett Kempton.

ASSISTANT PROFESSOR: Theodore H. Levin.

PROFESSORIAL LECTURER: Ludwig Caminita, Jr.

LECTURERS: Hazel Markel; Andrew L. Newman; Edwin Tribble.

Public Relations: Theory and Practice 59.500

Introduction to sequence of courses dealing with public opinion and the areas embraced by public relations. Survey of the media employed for mass communication—advertising, press, radio, periodicals, pamphlets, lectures, pictures. Case studies of current public relations and government information practices. FALL. SPRING. SUMMER. **Kempton.**

Publicity Writing 59.501

Study of practical writing techniques for public relations, publicity, and promotional programs. Instruction in the preparation of articles for newspapers, magazines, and trade journals; radio scripts; promotional booklets; press conferences and press relations. FALL. **Tribble.**

Promotional Campaigns 59.502

Case studies of promotion programs in representative organizations—such as business, governmental, and private. Analysis of specific problems in public relations. Development of a promotional campaign by each student. SPRING. **Caminita.**

Public Information Broadcasting and Telecasting 59.503

Study of television and radio as media of public relations for social, fraternal, and civic groups, schools, cultural organizations, and government agencies. Survey of fundamentals of writing, production, and broadcasting in relation to different types of pub-

lic service programs. Practice in writing interviews and spot announcements. SPRING. **Markel.**

Public Relations in Government 59.504

Objectives and problems of governmental agencies in their relations with the public. Methods by which public relations techniques may be used to promote more successful and economical execution of the law. Influence of public relations on efficiency of administration. SPRING. **Newman.**

Public Relations in Business 59.505

Study of media and techniques employed in public relations with emphasis on the relations between business and industry and various publics—such as labor, trade, dealer, customer, stockholder, and community relationships. SPRING. **Levin.**

Public Relations Policies 59.600

The formulation of policies for long-range public relations programs in business, trade associations, social and civic organizations, and Federal agencies. Advanced studies of methods for implementing policy and evaluating results. FALL. **Kempton.**

Seminar in Public Relations 59.700

An advanced seminar for graduate students interested in special research in the field of public relations. Permission of the instructor required. SPRING. **Kempton.**

RELIGION

WAYNE McLAIN

Acting Chairman of the Department

ASSOCIATE PROFESSOR: Ralph C. John (Chairman, on leave of absence with the armed forces).

ASSISTANT PROFESSOR: Wayne McLain.

Old Testament 61.100

Introduction to the literature of the Old Testament and to the history of the Hebrew people. Special attention is given to principles of Biblical interpretation. FALL. McLain.

New Testament 61.101

Introduction to the literature of the New Testament and to principles of historical study of Christian beginnings. SPRING. McLain.

Life and Teachings of Jesus 61.200

Detailed study of the career and ethical teachings of Jesus of Nazareth as recorded in the New Testament. Investigation of Jesus' teachings about God, man, the kingdom of God, the law of love, possessions, the family, prayer, etc. Study of the nature and significance of Jesus for mankind. SPRING. McLain.

Life and Letters of Paul 61.201

Life, experience, religious ideas, missionary activities, and organizational works of Paul of Tarsus. Detailed study of Pauline letters with special reference to his conception of human nature, the incarnation, general and special revelation, the atonement, law, the Christian life, the Holy Spirit, the Church, and eschatology. 1952 FALL AND ALTERNATE YEARS. McLain.

Classics of Christian Experience 61.202

Study and interpretation of the great spiritual writings from Saint Augustine to contemporary devotional lyrics as insight

into the personal meaning of religion and its individual and social expression. 1954 SPRING AND ALTERNATE YEARS. McLain.

Church History: Saint Paul to the Reformation 61.300

Growth and organization of Christianity. Interactions of spiritual and secular society. Development of the primitive church; rise and growth of the Papacy; evolution of monasticism; missionary activity; development of creeds. 1952 FALL AND ALTERNATE YEARS. McLain.

Church History: Modern 61.301

The Reformation; heresy. Conflict of Church and State. Church division to the ecumenical movement. Influence of environment upon the Church and of Christianity upon the environment. Study of biographies of religious leaders. 1953 SPRING AND ALTERNATE YEARS. McLain.

Comparative Religions 61.302

Comparative study of the world's great living religions, their founders, literature, ideas, values, and ethics in personal and social living. Inquiry into the relationships of these religions to the life, thought, and institutions of the peoples whom they influence. Survey of cults in relation to the religions studied. FALL. McLain.

Christian Beliefs 61.303

Introductory examination of Christian beliefs about God, the Bible, revelation, human nature, and human destiny. An attempt is made to relate basic Christian convictions to man's total intellectual enterprises. SPRING. McLain.

Principles of Religious Education**61.401**

Principles of learning and teaching from the standpoint of the Church considered as a teaching institution nurturing religious experience. Survey of methods and materials. Evaluation of church school and week-

day organizations and curriculums. 1952
FALL AND ALTERNATE YEARS. **McLain.**

Christian Ethics**61.402**

A systematic study of the fundamental presuppositions of Christian ethics; comparison of these presuppositions with contemporary secularist ethical theory; and implications for contemporary problems. FALL.
McLain.

SECRETARIAL TECHNIQUES

ELOISE N. MAGAW

Director of the Area in the Department of Education

ASSISTANT PROFESSOR: Eloise N. Magaw.

Typing [2]

63.100

Development of skill in the use of typewriter to produce typescript of accepted standards. FALL. SPRING. SUMMER. **Magaw.**

Advanced Typing [2]

63.101

Professional typist development through practical experience in executing skillbuilding assignments given on office production basis. *Prerequisite, Typing 63.100.* FALL. SPRING. SUMMER. **Magaw.**

Shorthand [2]

63.102

Complete theory of simplified Gregg shorthand. Development of proficiency in taking dictation. FALL. SPRING. SUMMER. **Magaw.**

Advanced Shorthand [2]

63.103

Thorough review of principles of simplified Gregg shorthand. Speed dictation and transcription skill built up to professional level. Special projects assigned to give student experience in particular fields of specialization such as government, medical, and legal. *Prerequisite, Shorthand 63.102, or the equivalent.* FALL. SPRING. SUMMER. **Magaw.**

SOCIOLOGY

FRANK LORIMER AND AUSTIN VAN DER SLICE

Chairmen of the Departments

PROFESSORS: Frank Lorimer; Austin Van der Slice.

ADJUNCT PROFESSORS: Ewan Clague; C. C. Van Vechten; Oscar Weigert.

ASSISTANT PROFESSORS: Robert T. Bower; James Fox; Harvey C. Moore.

PROFESSORIAL LECTURERS: Harry Alpert; John Jay Corson.

LECTURERS: Stanley K. Bigman; Helen E. Martz; Barkev S. Sanders;
Caroline F. Ware; Ivor Wayne.

BASIC COURSES

Sociology 65.200

Fundamental characteristics of group life. Relation of individual to the group and of groups to one another. Culture, personality, population and ecology, social institutions and processes, and cultural change. FALL. SPRING. SUMMER. Van der Slice. Fox.

General Anthropology: Ethnology 65.201

An introduction to the comparative study of cultural content, form, and process and of social structure. The contributions of ethnology to the understanding of modern life. FALL. Moore.

SOCIOLOGICAL THEORY AND METHOD

Social Research 65.412

Introduction to social research: design of the experiment, sources of data, preparation of reports. *Prerequisite, Sociology, 65.200.* FALL. Fox.

Sociological Theory 65.410

Introduction to background and development of systematic theory of sociology. *Prerequisite, Sociology, 65.200.* 1952 FALL AND ALTERNATE YEARS. Fox.

Concepts of Sociology 65.510

Systematic survey and critical analysis of sociological concepts. Emphasis on theo-

retical backgrounds. *Prerequisite, Sociology, 65.200.* SPRING. Van der Slice.

Socio-Economic Theories and Movements: Modern Period 65.511

Principles and theories related to socioeconomic movements, social reforms, and related legislative activities. Consideration of both European and American developments. SPRING. Correll.

Social Science Research Methods 65.512

General graduate course in research procedures in sociology with emphasis on experimental design, survey methods, and analysis of quantitative data. *Prerequisite, permission of department chairman.* FALL. SPRING. Bower. Clague.

Communication Research 65.514

Communication of ideas in modern society. Radio, newspaper, magazine, motion picture, television as they reflect and in turn influence major social trends. Special attention to current empirical research on mass media in relation to theory of sociology. *Prerequisite, permission of the instructor.* FALL. Bower.

Attitude Measurement and Research 65.515

Examination of various means of measuring attitudes and analyzing survey data. Actual empirical field work in opinion and

attitude research studied in detail to discover theoretical preconceptions involved and techniques employed. Emphasis on research methods. *Prerequisite, Sociology 65.512 or equivalent.* 1953 SPRING AND ALTERNATE YEARS. Bower. Wayne.

Research Methods in Medical Care 65.516

Research technics and data related to inquiry in areas of medical personnel, hospitals, cost of medical care, economic loss incident to ill health. Theories underlying important methodological techniques. Life, morbidity, invalidity, and hospitalization tables. *Prerequisite, Social and Economic Aspects of Health or the equivalent.* SPRING. Sanders.

History of Scientific Sociology 65.610

Comparative study of major schools of sociological thought including French, German, Italian, and British, as well as American contributions. *Prerequisite, permission of the department chairman.* FALL. Van der Slice.

ANTHROPOLOGY

Archeology and Physical Anthropology 65.330

Origin and antiquity of man's physical characteristics, reconstruction of early stages of human culture. Principles of archeological research. Relation of prehistoric cultures to contemporary society. *Prerequisite, Anthropology, 65.201.* SPRING. Moore.

Cultural Anthropology 65.530

An intensive analysis of a selected culture area will be the basis of surveying the principle findings of cultural anthropology and their application to societies on different levels of cultural complexity. *Prerequisite, Anthropology, 65.201, or consent of the instructor.* FALL. Moore.

Comparative Social Organization 65.531

An anthropological approach to the comparative study of selected societies and

varieties of social structure. *Prerequisite, Anthropology 65.201, or consent of the instructor.* SPRING. Moore.

Processes of Culture 65.532

Dynamics of Culture. Growth, development, and stability in culture content, form and organization. Acculturation and nativistic movements. Assimilation and integration of ethnic groups. The role of the individual in cultural processes. *Prerequisite, Anthropology 65.201 or consent of instructor.* FALL. Moore.

Methods in Cultural Anthropology 65.533

A graduate level course concerned with understanding and evaluating methods used in collecting and ordering anthropological data for problems of history, scientific research, and application. *Prerequisite, Anthropology, 65.201, and Anthropology, 65.203.* SPRING. Moore.

Cultures of Southeast Asia and Indonesia 65.534

An anthropological survey of selected cultures in the geographical areas of mainland Southeast Asia, the Malay Peninsula, and the islands from Sumatra to the Philippines. Description and analysis of past influences and present cultures. FALL 1952 AND ALTERNATE YEARS. Moore.

SOCIAL ORGANIZATION

The Family 65.340

Varying forms and functions of family organization in different societies. Evolution of American family patterns. Family relations and personality formation. Relation of contemporary social changes to family life: population; labor; income and consumption; housing; health; education; science and art; legal and political processes. SPRING. Lorimer.

Social Organization 65.540

Basic social structure of modern society. Emphasis on American social organization.

Factors in integration of society, division of labor, consensus, stratification, institutional structure, and role of social values. *Prerequisite, Sociology, 65.200.* SPRING. **Van der Slice.**

Social History of Protestantism 65.541

The social teachings of the Reformation Churches, their Catholic background and changing philosophies and ethics. The growing impact of secularism. Evangelical and non-conformist movements. Aspirations of religious settlements on American soil. Protestant social idealism and its institutional forms. SPRING. **Correll.**

Sociology of Political Action 65.542

Critical evaluation of recent theories of political sociology. Analysis of cyclical theories from a psycho-sociological approach. Motivation in political behavior both on the individual and organizational level. Application of concepts of group participation from functional sociology and psychology. *Prerequisite, Sociology, 65.200, and American Government: National, 53.200.* 1953 FALL AND ALTERNATE YEARS. **Bower.**

Development of American Culture 65.543

American history studied from the viewpoint of cultural anthropologist. Development of dominant American culture patterns, their relation to those of non-dominant economic, ethnic, and religious groups. Directions of cultural change. Course planned to provide understanding of traditions which influence social thought and action. *Prerequisite, Sociology, 65.200.* 1953 FALL AND ALTERNATE YEARS. **Ware.**

American Ethnic Groups and Classes 65.544

Analysis of structure of American society with special reference to nature and interrelations of its ethnic and economic groups. Problems relating to "minority" groups and their reflection in institutions, attitudes, and patterns of behavior. Factors affecting persistence and change in status and relationships. Problems of public policy. *Prerequisite, Sociology, 65.200.* 1952 FALL AND ALTERNATE YEARS. **Ware.**

American Communities 65.545

Analysis of the economic foundation, social and political structure, and impact on individual personality of different types of American communities. Emphasis on community services and responsibilities such as housing and health. Problems and processes of community organization and planning. *Prerequisite, Sociology, 65.200.* SPRING. **Ware.**

Collective Behavior 65.546

Analysis of crowd, mass, and public behavior. Relationship to social movements of modern times. Role of leadership in various types of collective behavior. Factors and processes in emergence of social order. *Prerequisite, Sociology 65.200.* FALL. **Alpert.**

POPULATION AND ECOLOGY

Population 65.350

Theoretical and problem approach to study of population. Composition, distribution, trends, and their social implications. Basic technics of measurement. SPRING. **Lorimer.**

Human Ecology 65.352

Relation of environment to distribution of population and to social structure and culture. FALL. **Lorimer.**

The City 65.550

Patterns and processes of urban society. Ecological and social organization of the modern city. Urban problems and trends. Emphasis on research methods. *Prerequisite, Sociology, 65.200.* FALL. **Fox.**

Analysis of Population Trends 65.551

Methods and results of population study. Growth and distribution of world population. Measurement and interpretation of variations in mortality. Use of life table functions in population studies. Crude and intrinsic trend of fertility; factors in differential fertility. Estimates of population prospects in the United States and other countries. Regional studies; relation of population to eco-

conomic resources; migration; labor force; and employment prospects. *Prerequisite, permission of the instructor.* FALL. Lorimer.

Population Problems and Policies 65.552

Theory of optimum population and empirical studies of relations of population density to level of living. Economic effects of population increase or decrease. Demographic aspects of international problems. Development of national policies of population in Europe and the Soviet Union. Implication of population analysis for education, social security, housing, and other fields of social policy. *Prerequisite, permission of the instructor.* SPRING. Lorimer.

SOCIAL PROBLEMS

Cultural Conflict 65.360

Identification of individuals and groups. Group competition and conflict. Role of stereotypes and patterns of dominance and accommodation. Conditions creating tension and crises. Types of cultural conflict: religious, racial, economic, national, and ideological. Methods of resolving cultural conflict. FALL. Fox.

Social Disorganization 65.361

Analysis of social problems created by technical and cultural change. Ecology of conflict, delinquency, and crime. Effect of migration on community structure. Social background of personal maladjustment. Processes of social reorganization. *Prerequisite, Sociology 65.200.* 1953 FALL AND ALTERNATE YEARS. Fox.

Public Welfare: Principles and Problems 65.561

Analysis of principles underlying current public welfare programs and major problems in public welfare fields including areas of unmet need. Review of early provisions for meeting needs of people. Changing concepts of helping individuals. Socio-economic forces leading to increased governmental responsibility to meet welfare needs. Organizational structure and methods of operation of Federal, state, and local agencies administering public welfare programs. *Pre-*

requisite, permission of department chairman. FALL.

Social and Economic Aspects of Health 65.562

Survey of current health needs and health problems. Scope and adequacy of public health services. Appraisal of medical care needs in relation to available personnel and facilities. Analysis of pending legislation with reference to economic, social, and professional, and institutional factors. *Prerequisite, permission of department chairman.* 1953 SPRING AND ALTERNATE YEARS. Sanders.

Causes of Crime 65.563

Nature and causal factors in delinquent behavior. Natural history of delinquent careers. Programs and policies for controlling problem of delinquency and crime in urban areas. *Prerequisite, Sociology 65.200.* 1953 FALL AND ALTERNATE YEARS. Van der Slice.

Treatment of the Offender 65.564

Practices, policies, and programs for treatment of convicted offender: (1) alternatives to imprisonment: probation and suspended sentence; (2) imprisonment: jail, reformatory, and penitentiary; (3) post-imprisonment: parole, police surveillance, and rehabilitative programs. *Prerequisite, Causes of Crime, or the equivalent.* 1954 SPRING AND ALTERNATE YEARS. Van Vechten.

Social Security 65.565

Significance of security to individual in industrial-urban civilization. Review of causes of insecurity and ways and means adopted in United States and other countries to provide security. Relief, public assistance, unemployment insurance, survivors' insurance, old age insurance, health insurance, and workmen's compensation. *Prerequisite, permission of department chairman.* FALL. Corson.

Fundamentals of Housing 65.566

Major problems in production, marketing, and financing of housing. Nature and condition of housing. Technology of supplying houses, housing, and the national economy.

Private and public activity in housing. *Prerequisite, permission of department chairman.* FALL. Colwell.

Urban Redevelopment 65.567

Theory and practice of urban redevelopment. Causal factors of city blight and slums; efforts of public and private agencies to check spread of blight and to redevelop slums and blighted areas. Discussion of planning, financial, social, and legislative aspects of urban redevelopment. *Prerequisite, permission of department chairman.* 1952 FALL AND ALTERNATE YEARS. Searles.

In-Service Training Project 65.691

Research projects for limited number of qualified students working in government or private organizations in areas related to their degree program. Project under supervision by joint agreement of faculty and organization concerned. FALL. SPRING. SUMMER. Department Chairman.

Sociological Method: Seminar 65.710

Seminar devoted to translation of theories into research operations. Students share in research projects conducted at the Bureau of Social Science Research; supervised research experience for graduate students. *Prerequisite, permission of the instructor.* SPRING. Bower and Bureau Staff.

Sociological Theory: Seminar 65.711

Intensive study of selected area or school of sociological thought. Emphasis on research in source material. *Prerequisite, permission of chairman of the department.* SPRING. Staff.

Population: Research Seminar 65.750

Prerequisite, permission of the instructor. Lorimer.

Sociology Thesis Seminar 65.799

Methods of research and writing doctoral dissertations and master's theses. Van der Slice.

SPEECH AND THEATER

MARY MILLER PATTON and ELLA HARLEE

Directors of the Area in the Departments of Communication and English

ASSOCIATE PROFESSOR: Mary Miller Patton.

ASSISTANT PROFESSOR: Ella Harlee.

***Principles of Speech [4]**

67.100-101

A two-session course. Study and application of principles underlying use of voice and body in effective communication. Student hears and studies own voice in speech laboratory by use of recordings and playback machines. Practice in finding subjects and materials, organizing and outlining speeches. Experience before an audience. Course required of all freshman students in College of Arts and Sciences. Course in College extends over fall-spring sessions with two credits each session. FALL. Patton.

*** Voice and Diction**

67.103

Voice production fundamentals. Proper articulation and phonation. Exercises for voice improvement. Analysis of American speech sounds. Treatment of individual student speech problems through recordings and interviews. FALL. SPRING. Harlee.

*** Public Speaking**

67.200

Practical study of platform techniques, vocal projection, preparation and organization of material, audience psychology, basic appeals and factors of attention and illustration. Weekly practice in the verbatim, extemporaneous and impromptu speech.

Interpretative Reading

67.200

Analysis, interpretation, and practice in expressive reading and speaking of literature to develop insight and personal ability in sharing literature with an audience. Nature and technique of creative interpretation.

*A laboratory fee of \$2.00 is assessed from all parttime students. The fee is not refundable.

Thorough study of techniques of reading aloud. *Prerequisite, Principles of Speech 67.100-101.* 1952 FALL. Patton.

Interpretative Reading

67.201

Practice in use of techniques of effective oral interpretation. Presentation of advanced selections from classical and modern drama and fiction. Each student required to present an interpretative recital during the semester. Three hours credit. SPRING. Patton.

***Principles of Voice and Diction:**

Advanced

67.300

Techniques of oral interpretation. Practice in oral presentation of published speeches and dialogues, oral reports, stories, and poetry. Intensive practice in voice and articulation improvement. *Prerequisite, Voice and Diction 67.103.* Harlee.

Public Speaking: Advanced

67.301

Detailed study of speech organization and delivery. Practice in speech writing, heckling, and impromptu techniques. The following speech types are discussed and presented by the students; informative, persuasive, introductory, entertaining, presentation, narrative, welcome, nomination and tribute. *Prerequisite, Fundamentals of Public Speaking.* SPRING. Harlee.

Acting

67.252

Intensive work in techniques of creative acting. Bodywork, motivation, pantomime, characterization, and improvisation. Laboratory stage work. *Prerequisite, permission of instructor.* FALL. Patton.

Acting 67.253

Dramatization of scenes from selected plays with special attention to analysis of dramatic roles and character delineations. Each student creates at least one major role in laboratory play. *Prerequisite, Acting 67.252 or permission of instructor.*

History of Theater and Drama Types (2) 67.450

Development of theater from classical to modern times. Evolution of physical theater and styles of writing. Required reading of selected plays representing each period. 1952 FALL AND ALTERNATE YEARS. **Patton.**

History of Theater and Drama Types (2) 67.451

Survey of theater with emphasis on contemporary drama from Ibsen to Broadway. Individual research on selected trends. *Prerequisite, History of Theater and Drama Types 67.450 or permission of instructor.*

Repertoire Theater 67.550

Intensive study and cooperative presentation of summer outdoor theater. Students produce and act American dramas. **SUMMER.**

STATISTICS

JOHN H. SMITH

Chairman of the Department

PROFESSOR: John H. Smith.

ADJUNCT PROFESSORS: Ernest E. Blanche; Scott Dayton; Jerome Cornfield.

ASSISTANT PROFESSOR: Lillian Cohen.

PROFESSORIAL LECTURERS: Henry G. Puppa; Ernest Rubin; Seymour L. Wolfbein.

LECTURERS: Milton Abelson; Sidney Binder; Carl L. Byham; W. S. Connor, Jr.; Harold F. Dorn; Churchill Eisenhart; Wilmoth D. Evans; Harry H. Harman; Arthur Jaffe; Edgar P. King; Walt R. Simmons; Herbert Solomon; Mary E. Spear; Howard West; William J. Youden.

Fundamentals of Statistics 69.200

Collection and classification of data, tabular and graphic presentation, averages and measures of dispersion, errors of random sampling and standard-error analysis, linear regression and correlation between two variables. *Prerequisite, advanced algebra in high school, one session of college mathematics, or permission of the department chairman.* FALL. SPRING. SUMMER. Abelson. Cohen. Puppa. Byham.

Business Statistics 69.300

Price indexes, analysis of time series, indexes of physical volume, elements of multiple correlation and statistical inference. *Prerequisite, Fundamentals of Statistics, 69.200, or equivalent.* FALL. SPRING. SUMMER. Abelson. Dayton.

Intermediate Statistics 69.301

Application of statistics in social sciences emphasizing the following techniques: sampling design, correlation, contingency tables, and tests of significance. *Prerequisite, Fundamentals of Statistics, 69.200 or equivalent.* SPRING. Rubin.

Graphic Presentation of Statistical Data 69.360

Principal functions of the statistical chart, types of chart for special purposes. Workshop approach to use of color, commercial materials, lettering sets, and other devices. Sources of materials, duplicating processes,

methods of preparing exhibits, planned displays and publications, audio-visual media. FALL. Spear.

Graphic Presentation of Statistical Data: Advanced 69.361

Practical applications of the principles of graphical presentation for specific purposes: company reports, results of surveys, public exhibits, congressional hearings, executive conference room meetings, charts for newspaper and magazine articles, pamphlets, advertising, television. *Prerequisite, Graphic Presentation of Statistical Data, 69.360 and work in drafting and commercial art or permission of the department chairman.* SPRING. Spear.

Mathematical Statistics 69.500

Frequency and probability distributions. Binomial, Poisson, and normal distributions. Generating functions and cumulants. Bivariate distributions. Introduction to simple sampling, correlation, analysis of variance, and associated tests of significance. *Prerequisite, six hours of statistics and six hours of calculus.* SPRING. Smith.

Correlation Analysis 69.502

Simple, partial, and multiple correlation. Graphic and mathematical methods for dealing with curvilinear and non-additive relationships. Tests of significance and confidence intervals associated with simple and partial regression co-efficients. Computational methods based on elements of the

reciprocal of the correlation matrix. *Prerequisite, three hours of calculus and six hours of statistics.* FALL. Smith.

Analysis of Variance 69.504

Analysis of sums of squares into components attributable to different factors with tests of significance for factors of interest in each problem. Latin square and simple factorial design problems with some attention to more general problems involving confounding and multiple classification with unequal frequencies. *Prerequisite, six hours of calculus and six hours of statistics.* SPRING. Smith.

Theory of Sampling 69.510

Planning of economic and social surveys to achieve maximum efficiency. General methods applied to large variety of sampling situations. Stratification, choice of sampling units, sub-sampling, double sampling. Uses of biased methods of sampling and estimating. Evaluation of the precision and bias of the results obtained. *Prerequisite, three hours of calculus and familiarity with elementary sampling concepts.* FALL. Evans. Cornfield.

Theory of Sampling: Advanced 69.511

Advanced problems of sampling design. Cluster sampling, effects of cluster size on reliability of a given size sample, sub-sampling, information per dollar as a function of number of clusters and relationships among different types of costs, sampling with probability proportional to size, systematic sampling, restricted sample designs. *Prerequisite, Theory of Sampling, 69.510.* SPRING. Evans. Cornfield.

Design of Schedules and Sampling Practice 69.520

Application of statistical and social science criteria to the design of forms used to collect information in fields of government, education, and private industry. Elements of sampling practice, including random selection and stratification, in terms of a sample survey conducted by the class. FALL. Rubin.

Machine Methods in Large Scale Surveys 69.530

Administering large scale surveys with emphasis on efficient planning. Editing, checking, coding, tabulating, and analysis by means of punched cards and mechanical tabulating equipment. *Prerequisite, a course in statistics or adequate experience.* FALL. Binder.

Machine Methods in Large Scale Surveys: Advanced 69.531

Practical applications of the punched card method in large scale surveys. Problems in machine utilization, plug-board wiring, and development of mechanical tabulating procedures. *Prerequisite, Machine Methods in Large Scale Surveys, 69.530, or permission of the department.* SPRING. Binder.

Labor Statistics: Labor Force 69.540

Sources, methods of collection, and critical analysis of statistics of the labor force. Occupational descriptions and classification, industrial classification, industrial censuses, employment and payrolls, absenteeism, and estimates of employment and unemployment. FALL. Wolfbein.

Labor Statistics: Wages and Productivity 69.541

Wage rates, union scales, vacations, retirements. Prices and real wages. Sources, methods of collection, analysis, and presentation. Application to labor problems. SPRING. Wolfbein.

Factor Analysis 69.550

Theory and computational methods designed to analyze and describe a set of measurements on a large number of variables in terms of a small number of factors with emphasis on psychological applications. *Prerequisite, one year of statistics with some work in multiple correlation. Additional work in statistics, mathematics, and psychological tests and measurements desirable.* FALL. Harman.

Factor Analysis: Advanced 69.551

Review of direct methods for reduction of correlation matrix; theory of orthogonal and oblique transformations; derived orthogonal

and oblique factor solutions; estimation of factors; relationships and comparisons of factor solutions. *Prerequisite, Factor Analysis 69.550, or permission of the instructor.* Not offered in 1952-1953.

Quality Control in Management 69.570

Application of elementary statistical methods to control of quality of product or work output with emphasis on appropriate methods of combining information thus obtained with other types of information in connection with industrial and administrative problems. *Prerequisite, Fundamentals of Statistics, 69.200, and some background in administration.* FALL. Smith.

Sequential Analysis 69.571

Methods based on selection of observations singly or in groups until a hypothesis may be accepted or rejected with a specified risk. Application to acceptance inspection and quality control. *Prerequisite, a course in statistics with a calculus prerequisite or experience in quality control work.* Not offered in 1952-1953.

Design and Interpretation of Experiments 69.572

Introductory course concerned with setting forth (a) the characteristics of a good experiment, (b) experimental designs and the associated statistical techniques for analyzing the data, and (c) methods for improving the precision of experiments. The topics will be illustrated by examples. *Prerequisites, Fundamentals of Statistics, 69.200, or equivalent and advanced work in one of the sciences.* Not offered in 1952-1953.

Statistical Theory of Measurements 69.573

Mathematical treatment of measurement processes based on modern developments in mathematical probability, statistical inference, and industrial process control. Measurement, scales, direct versus indirect measurement. Limiting mean, true values, errors, mathematical and statistical convergence. Statistical techniques for detection and diagnosis of errors. Precision versus accuracy. *Prerequisite, a bachelor's degree in one of the sciences and a first course in probability*

or modern statistical methods, or consent of the instructor. Not offered in 1952-1953.

Acceptance Sampling [2] 69.575

Review of catalogues of existing sampling plans. Principles of lot by lot sampling inspection by attributes and variables. Recent developments in attributes and variables sampling inspection. Not offered in 1952-1953.

Estimation and Testing Hypotheses 69.600

Least squares, maximum likelihood, confidence intervals. Properties of statistics and criteria of estimation, alternative hypotheses and errors of first and second kinds, desirable properties of test criteria. *Prerequisite, Correlation Analysis, 69.502, and Analysis of Variance, 69.504.* FALL. Smith.

Statistical Decision Functions 69.604

Comparisons of methods based on statistical decision functions with alternative techniques for deciding on reasonable courses of action based on incomplete information. Roles of alternative specification of the problem of inference, assignment of probabilities to each possible situation and the minimax principle as used in the theory of games. *Prerequisite, at least six hours in statistics with a calculus prerequisite.* Not offered in 1952-1953.

Morbidity and Mortality Analysis 69.640

Sources of morbidity data, definition and computation of measurements of morbidity, construction of morbidity tables, application of actuarial techniques in follow-up studies. Definition and computation of life table functions, biological aspects of life tables with application to morbidity and mortality data. SPRING. Dorn.

Mathematical Principles of Experiment Design 69.671

Definition and analysis of designs including randomized block, balanced incomplete block, Latin square, Youden square, and factorial. Least squares estimation of treatment and block effects. Development of

generalized t and F tests and analysis of variance. Use of finite geometries and difference sets to construct designs. Analysis of data from which one or more planned observations are missing. *Prerequisite, at least two courses in statistics with calculus prerequisite.* Not offered in 1952-1953.

Econometrics: Statistical Analysis of Time Series 69.680

Estimation of parameters in dynamic probability models, comparative advantages

of alternative methods of studying related economic time series such as ordinary regression analysis and input-output technique. *Prerequisite, Correlation Analysis, 69.502, and some work with continuous probability functions.* Not offered in 1952-1953.

Seminar in Statistical Theory 69.790

Thesis Seminar in Statistics 69.799

TELEVISION AND RADIO

WILLETT KEMPTON

Director of the Area in the Department of Communication

ADJUNCT PROFESSOR: Van Beuren W. DeVries.

ASSOCIATE PROFESSOR: Willett Kempton.

LECTURERS: John H. Battison; Lawrence Beckerman; Ralph Burgin; Franklin Dunham; Stanley Field; Fred Fiske; Thomas D. Geoghegan; Edwin Halbert; Charles L. Kelly; Harold Stepler.

Introduction to Television and Radio 71.300

Survey of the organization and principles of broadcasting and telecasting operations. Duties, responsibilities, and activities of each department in a television and radio station. Lectures and demonstrations by personnel from the profession. *Prerequisite to all other courses in the area.* FALL. SPRING. SUMMER. Geoghegan.

Television and Radio Speech 71.400

Essentials of effective microphone speech. Improvement of voice production and tonal quality through individual analysis. Preparation and delivery of speech assignments in sports and special events. Introduction to acting and announcing. Laboratory fee for parttime students, \$2.00. FALL. SPRING. SUMMER. Fiske.

Television and Radio Writing 71.401

Study of the scope of the profession of writing for television and radio. Practice in writing of various types of continuities, commercials, interviews, reports of special events, and musical introductions. Survey of the technical requirements for formats, typing, timing, and pacing. FALL. SPRING. SUMMER. Field.

Television and Radio Music 71.402

Place and function of music in radio and television: planning musical programs, clearance and copyright problems, talent selec-

tion, the makeup and upkeep of a music library; sources of recorded and transcribed music, problems of live musical programs, incidental music, the function and relationship of the music librarian to the station staff. SPRING. Burgin.

Television and Radio Dramatic Writing¹ 71.500

Specialized training in the techniques of planning, organizing, and creating dramatic scripts. Study of sketches, originals, adaptations. Emphasis on plotting, characterization, dialogue, pacing, mood. Use of music and sound. Practical application of principles in writing all types of dramatic television and radio scripts. FALL. DeVries.

Television and Radio Dramatic Writing² 71.501

Continuation of the work of 71.500. *Prerequisite, Television and Radio Dramatic Writing¹ 71.500.* SPRING. DeVries.

Television Writing: Advanced 71.502

Fundamental problems of preparing written materials for television. Differences between television and radio scripts, research methods used for writing commercials, informational programs and dramatic shows. *Prerequisite, Television and Radio Writing 71.401 or equivalent.* SUMMER. DeVries.

Television and Radio Newswriting 71.503

Planning, writing, and editing newscasts for radio and television. Policies governing

news writing and editing. Functions and organization of station and network news staffs. Emergency and special events activities. Practical experience using actual wire copy and other source materials. 1952 FALL.

Television and Radio Announcing 71.504

Microphone training. Study of functions and duties of announcers. On-the-air and off-the-air responsibilities. Staff assignments, sustaining and commercial, narration, interviews, newscasts, special events, reporting, sports, and audience participation. Live and film commercials, timing, pacing. Analysis of individual work in all phases of announcing. *Prerequisite, Television and Radio Speech 71.400 or the equivalent.* Laboratory fee \$2.00 for parttime students. SPRING. *Stepher.*

Television and Radio Acting ¹ 71.506

Study of casting, auditions, and rehearsals. Terminology and signals. Characterizations, dialects, pacing, memorization, movements, studio practice, microphone techniques. Relation of actor to other elements in production. Professional organizations. Laboratory fee \$2.00 for parttime students. FALL. *Beckerman.*

Television and Radio Acting ² 71.507

Continuation of 71.506. *Prerequisite, Television and Radio Acting ¹ 71.506.* Laboratory fee \$2.00 for parttime students. SPRING. *Beckerman.*

Television and Radio Production and Direction ¹ 71.508

Study of production problems: budget, script, casting, rehearsals, timing, pacing, sound, music, visual aids, signals and showmanship. Relation of producer-director to administration, talent, and engineering. Practical application and observation of techniques under actual studio conditions. Laboratory fee \$2.00 for parttime students. FALL. *Halbert.*

Television and Radio Production and Direction ² 71.509

Continuation of 71.508. *Prerequisite, Television and Radio Production and Direction ¹*

71.508. Laboratory fee \$2.00 for parttime students. SPRING. *Halbert.*

Television and Radio Management 71.510

Obtaining a station license; network affiliation versus independent operation; building and training a station staff; labor problems; functions and inter-relationships of broadcasting departments; research as a management tool; community activities of station management; standards of practice. SPRING. *Battison.*

Television and Radio Advertising 71.511

Analysis of the techniques of advertising and selling for television and radio. Relation to other advertising media. Organization and function of advertising agencies; ratings, rate cards, and contracts; commercial announcements and programs; audience, market, and product analysis; building and selling campaigns. FALL.

Television Programming 71.512

Analysis of various types of programs, audience reactions, and community relationships. Program building, traffic and schedules for stations and networks. Tools and techniques of both studio and remote productions. Use of films and visual materials. Studio observation. SUMMER. *Kelly.*

Television Workshop 71.513

Advanced training in the theory and practice of all phases of television studio production, including script writing, acting, directing, and producing. Fee of \$76.00 includes \$37.00 laboratory charge. Enrollment limited. *Prerequisite, permission of director of television and radio studies.* FALL. *DeVries.*

Television Production Laboratory 71.514

Continuation of 71.513. Emphasis on experimental program formats and research in studio production methods. The application of dramatic principles to TV situations. Integration of motion pictures, slides and special visual effects. *Prerequisite, Television Workshop 71.513 and permission*

of the instructor. Fee of \$76 includes \$37.00 laboratory charge. SPRING. **DeVries.**

Video and Film Presentation 71.515

Problems in the use of films in television. Underlying theories of visual presentation. Animation and special effects for public service programs, commercials, features, newsreels. Actual use of cameras and production of motion pictures by students. Laboratory fee: \$15.00. FALL. SUMMER. **Battison.**

Television and Radio in Education 71.600

Methods and procedures used in radio

and television as a teaching medium. Examples of organization and administration of public school departments of radio and television, including systems of audio-visual departments and divisions of curricular and instructional materials centers. Uses of programs available through regular broadcasting outlets and creation of materials for curriculum needs on all instructional levels, including university extension, adult education, and secondary and grade school presentations. FALL. **Dunham.**

Seminar in Television and Radio 71.700

Kempton.

ADMINISTRATION

HURST R. ANDERSON, B.A., M.A., LL.D., President
 DAYTON E. MCCLAIN, B.A., M.A., S.T.B., Ph.D., Vice President
 DONALD DERBY, B.A., M.A., Ph.D., Provost
 STAFFORD H. CASSELL, B.A., B.S., M.S., Assistant to the President
 PATRICK HAYES, Assistant to the President and Managing Director, The American University
 Concerts
 JOHN E. BENTLEY, M.A., S.T.B., M.R.E., Th.D., Dean, College of Arts and Sciences
 ERNST POSNER, Ph.D., Director, School of Social Sciences and Public Affairs
 PITMAN B. POTTER, B.A., M.A., Ph.D., Dean, Graduate Division of the School of Social
 Sciences and Public Affairs
 MARY E. BRADSHAW, B.S., M.A., Ph.D., Associate Dean, Graduate Division of the School of
 Social Sciences and Public Affairs
 AUSTIN VAN DER SLICE, B.A., M.A., Ph.D., Dean, Undergraduate Division of the School of
 Social Sciences and Public Affairs
 BANCROFT W. SITTERLY, B.A., M.A., Ph.D., Associate Dean, Undergraduate Division of the
 School of Social Sciences and Public Affairs
 DAVID R. BOOKSTAVEN, B.A., LL.B., Dean, Washington College of Law
 DOROTHY D. GONDOS, B.A., M.A., Ph.D., Dean of Student Affairs and Dean of Women
 ERNST CORRELL, Dr. occ. publ., Adviser to Foreign Students
 ELLIS WEITZMAN, B.S., M.A., Ph.D., University Examiner
 LUDWIG M. HOMBERGER, Dr. Jur. et rer. pol., Director of the Division of Professional Institutes
 and of the 1953 Summer Session
 HAZEL H. FEAGANS, B.A., B.E., M.A., Registrar
 ANNE JENSEN, B.A., B.S. in L.S., Librarian
 LOIS TORRENCE, B.A., M.A., Director of Admissions
 ROBERT T. BOWER, B.A., Director, Bureau of Social Science Research
 HAROLD E. DAVIS, B.A., M.A., Ph.D., Director, American Language Center
 ALVA L. DAVIS, B.A., M.A., Ph.D., Director of Studies, American Language Center
 GUY ZICKEFOOSE, B.A., M.C.S., Treasurer
 HERBERT E. WALTER, Business Manager

Chairmen of Departments at the College of Arts and Sciences

Art	WILLIAM H. CALFEE
Biology	STEPHEN H. HATCHETT
Chemistry	LEO SCHUBERT
Economics	FRITZ KARL MANN
Education	SAMUEL E. BURR, JR.
English	MERRITT C. BATCHELDER
History and Government	DOROTHY D. GONDOS (Acting)
Mathematics	WALTER F. SHENTON
Languages	RUBERTA M. OLDS
Music	JAMES L. McLAIN
Physical Education and Health	HUGO SCHULTZ (Acting)
Physics	HOWARD LONG
Psychology	JOHN E. BENTLEY
Religion and Philosophy	WAYNE McLAIN (Acting)

Chairmen of Departments at the School of Social Sciences and Public Affairs

Communication	WALTER P. BOWMAN
Economics and Business Administration	FRITZ KARL MANN
History	ERNST POSNER
International Relations and Organization	PITMAN B. POTTER
Mathematics	WALTER F. SHENTON
Political Science and Public Administration	CATHERYN SECKLER-HUDSON
Psychology and Education	CHARLES K. TRUEBLOOD (Acting)
Sociology and Public Welfare	AUSTIN VAN DER SLICE
Statistics	JOHN H. SMITH

FACULTY

- AULD, FLOYD W. (1952), B.S., State Teachers College, Indiana, Pennsylvania; M.A., New York University. *Instructor in the American Language Center.*
- BAILY, NATHAN A. (1946), B.S.S., College of the City of New York; M.A., Ph.D., Columbia. *Associate Professor of Economics and Business Administration.*
- BAKER, SARAH (1945), Pennsylvania Academy of Fine Arts, Academie Montparnasse, Phillips Memorial Gallery. *Assistant Professor of Art.* On leave 1952-1953.
- BATCHELDER, MERRITT C. (1935), B.A., Hillsdale; M.A., Columbia; Ph.D., Iowa State. *Professor of English.*
- BEDELL, RALPH (1950), B.S., Central Missouri State; M.A., Ph.D., Missouri. *Professor of Psychology and Education.* On leave February 1952-February 1953.
- BENTLEY, JOHN EDWARD (1924), M.A., Clark; S.T.B., M.R.E., Boston; Th.D., McGill. *Professor of Psychology.*
- BIGGS, WILLIAM E. (1952), B.A., LL.B., M.A., University of Louisville. *Assistant Professor of Political Science and Public Administration.*
- BLANC, PETER (1951), B.A., LL.B., St. Johns. *Instructor in Art.*
- BOOKSTAVER, DAVID R. (1947), B.A., Cornell; LL.B., Yale. *Professor of Law.*
- BOWER, ROBERT T. (1949), B.A., Yale. *Assistant Professor of Sociology.*
- BOWMAN, WALTER P. (1950), B.A., Bowdoin; Certificate, University of Caen, France; M.A., Ph.D., Columbia. *Professor of Communication.*
- BRADSHAW, MARY E. (1950), B.A., M.A., Pennsylvania College for Women; Ph.D., Wisconsin. *Associate Professor of International Relations and Organization.*
- BRANDENBURG, DAVID J. (1948), B.S., Bowdoin; M.A., Ph.D., Columbia. *Assistant Professor of History.*
- BRANFORD, WALTER A. (1946), B.A., Washington College; M.A., Duke. *Assistant Professor of English.* On leave 1952-1953.
- BROWN, MARY LOUISE (1925), B.A., DePauw; M.A., Michigan. *Emeritus Professor of English.*
- BURR, SAMUEL ENGLE, JR. (1947) Litt.B., Rutgers; M.A., Wisconsin; M.A., Columbia; Ed.D., Cincinnati. *Professor of Education.*
- BUSH, GEORGE P. (1947), B.A., University of Washington; M.B.A., Harvard; M.A., Ph.D., American. *Associate Professor of Public Administration.*
- CALFEE, WILLIAM H. (1944), Beaux Arts, Paris; Cranbrook Academy; Corcoran School of Art; Phillips Gallery School; Catholic University of America. *Associate Professor of Art.*
- CARLS, NORMAN (1948), B.Ed., Illinois State Normal; M.A., Ph.D., Clark. *Professor of Geography.*
- CARNDUFF, ARTHUR (1949), B.A., Indiana; LL.B., Northwestern. *Assistant Professor of Economics and Business Administration.*
- CASSELL, STAFFORD H. (1937), B.A., American; B.S., M.S., Pennsylvania State. *Professor of Physical Education.*
- CLARK, CHARLES M. (1940), B.A., M.A., Ph.D., Cornell. *Associate Professor of English.*
- CLENDENIN, JOHN (1949), B.S., Mansfield; M.A., Bucknell. *Instructor in English.*
- COHEN, LILLIAN (1952), B.A., Temple University; M.A., Ph.D., University of Chicago. *Assistant Professor of Statistics.*
- CORRELL, ERNST (1929), Dr. oec. publ., Munich. *Professor of Economic History.*
- CRAWFORD, H. D. (1946), B.A., Hillsdale. *Assistant Professor of Journalism.*
- DAVIS, ALVA L. (1952), B.A., Indiana State Teachers College; M.A., Ph.D., University of Michigan. *Associate Professor of Linguistics in the American Language Center.*
- DAVIS, HAROLD E. (1947), B.A., Hiram; M.A., Chicago; Ph.D., Western Reserve. *Professor of History.*
- DAVIS, PHILIP (1952), B.S., Ph.D., Harvard. *Visiting Assistant Professor of Mathematics.*
- DERBY, DONALD (1947), B.A., Bowdoin; M.A., Ph.D., Harvard. *Associate Professor of History.*
- EKIRCH, ARTHUR A., JR. (1947), B.A., Dartmouth; M.A., Ph.D., Columbia. *Associate Professor of History.*
- EMMONS, MARGARET L. (1952), B.A., University of Michigan. *Assistant Professor in the American Language Center.*
- FEAGANS, HAZEL H. (1929), B.A., B.E., George Washington; M.A., American. *Professor of English.*

- FIELDS, DAVID S. (1950), B.S., M.B.A., College of the City of New York. *Assistant Professor of Economics and Business Administration.*
- FOX, JAMES (1950), B.A., M.A., American. *Assistant Professor of Sociology.*
- FRAILEY, ROBERT (1949), B.S., American. *Instructor in Physical Education.*
- FRANCHINO, ROY P. (1951), B.S., Seton Hall University; LL.B., Georgetown; LL.M., Michigan. *Assistant Professor of Law.*
- FRANK, JOHN G. (1948), Ph.D., Michigan; Ph.D., Munich. *Professor of German.*
- FUCHS, HERBERT (1948), B.S., College of the City of New York; J.D., New York University. *Assistant Professor of Law.*
- GATES, ROBERT F. (1946), Detroit School of Fine Arts; Detroit School of Arts and Crafts; Art Students' League, New York; Phillips Gallery; Colorado Springs Fine Arts Center. *Assistant Professor of Art.*
- GONDOS, DOROTHY (1947), B.A., Swarthmore; M.A., Ph.D., Pennsylvania. *Associate Professor of History.*
- HARLEE, ELLA (1945), B.A., American; M.A., Columbia. *Assistant Professor of Speech.*
- HATCHETT, STEPHEN (1947), B.A., American; M.A., Ph.D., Michigan. *Professor of Biology.*
- HATTERY, LOWELL H. (1948), B.A., Ohio; Ph.D., American. *Associate Professor of Public Administration.*
- HAWKE, VIRGINIA (1950), B.S., M.A., Ohio State. *Assistant Professor of Health and Physical Education.*
- HERSH, CHARLES (1950), B.A., M.A., Ph.D., Syracuse. *Assistant Professor of Public Administration.*
- HEWINS, JOHN (1951), B.A., Michigan; M.A., Maryland. *Assistant Professor of Geology.*
- HIPPEN, JOHN (1950), B.A., Stanford; M.B.A., Harvard. *Assistant Professor of Economics and Business Administration.* On leave 1952-1953.
- HOMBERGER, LUDWIG M. (1939), Dr. Jur. et rer. pol., Wurzburg. *Professor of Transportation.*
- IMMER, JOHN R. (1952), B.A., Drury College; M.S., University of Illinois. *Professor of Industrial Management.*
- JENSEN, ANNE (1930), B.A., Des Moines; B.S. in L.S., Illinois. *University Librarian.*
- JOHN, RALPH C. (1949), B.A., Berea; S.T.B., S.T.M., Boston; Ph.D., American. *Associate Professor of Religion and Philosophy.* On leave with the armed forces 1951-1953.
- JOHNSON, ALAN (1949), B.S., Rutgers; M.S., New York. *Assistant Professor of Accounting.*
- JORGENSEN, GLADYS V. (1944), B.A., M.A., Wisconsin; R.N., Henry Ford Hospital School of Nursing and Hygiene. *Assistant Professor of Nursing Education.*
- KECK, ANDREW S. (1946), B.A., Williams; M.A., M.F.A., Princeton. *Associate Professor of Art.*
- KEMPTON, WILLETT (1947), B.A., M.A., Wisconsin. *Associate Professor of Public Relations and Television Studies.*
- KNIPLING, PHOEBE (1949), B.A., Catawba; M.S., Ph.D., Iowa State. *Assistant Professor of Biology.*
- KOWACIC, JOSEPH (1952), B.A., Duns Scotus College; M.A., Catholic University. *Instructor in the American Language Center.*
- LEINWEBER, C. HENRY (1926), Ph.D., Fribourg (Switzerland). *Emeritus Professor of German.*
- LEVIN, THEODORE H. (1947), B.A., M.A., Brooklyn. *Assistant Professor of Economics and Business Administration.*
- LIPSMAN, S. W. (1952), B.S., College of the City of New York; M.A., Columbia University. *Assistant Professor of English.*
- LONG, HOWARD (1952), B.S., Northwestern; Ph.D., Ohio State University. *Associate Professor of Physics.*
- LORIMER, FRANK (1938), B.A., Yale; M.A., Chicago; B.D., Union; Ph.D., Columbia. *Professor of Sociology.*
- LUTZ, JULIA (1948), B.A., West Virginia. *Instructor in Library Science.*
- MAGAW, ELOISE (1949), B.S., Iowa; M.A., Columbia. *Assistant Professor of Secretarial Techniques.*
- MANN, FRITZ KARL (1936), Dr. Jur., Goettingen; Ph.D., Berlin. *Professor of Economics.*
- MARSHALL, LEON C. (1936), B.A., LL.D., Ohio Wesleyan; B.A., M.A., Harvard. *Emeritus Professor of Political Economy.*
- MCCAUSLAND, STANLEY (1948), B.S., Ursinus. *Instructor in Biology.*
- MCGUIRE, ESTHER L. (1952), B.A., Moorehead State Teachers College. *Instructor in the American Language Center.*
- McLAIN, JAMES (1934), B.A., George Washington; Certificate, Peabody. *Professor of Music.*
- McLAIN, WAYNE (1951), B.A. Berea; S.T.B., Boston. *Assistant Professor of Religion.*

- MOOERS, EDWIN A. (1918), LL.B., LL.D., Washington College of Law. *Professor of Law.*
- MOORE, HARVEY C. (1951), B.A., Delaware; Ph.D., New Mexico. *Assistant Professor of Anthropology.*
- MYERS, JOHN SHERMAN (1947), B.S., LL.B., Harvard. *Professor of Law.*
- NEUFELD, C. H. HARRY (1951), B.Sc., Dalhousie University; Ph.D., Notre Dame. *Assistant Professor of Chemistry.*
- OBERHETTINGER, FRITZ (1951), Ph.D., Berlin. *Professor of Mathematics.*
- OLDS, RUBERTA M. (1930), Ph.B., Chicago; M.A., Columbia. *Associate Professor of Spanish.*
- PATTON, MARY MILLER (1943), B.A., Kalamazoo; M.A., Columbia. *Associate Professor of Speech.*
- PERSON, RUSSELL (1947), B.S., Minnesota. *Instructor in Mathematics.*
- PHILLIPS, RUTH H. (1950), B.S., Maryland State Teachers College; B.S., Johns Hopkins; M.S. in L.S., Columbia. *Assistant Professor of Library Science.*
- PILCHER, PALMER C. (1952), B.A., Syracuse University. *Assistant Professor of Political Science and Public Administration.*
- POSNER, ERNST (1939), Ph.D., Berlin. *Professor of History and Archival Administration.*
- POTTER, PITMAN B. (1944), B.A., M.A., Ph.D., Harvard. *Grozier Professor of International Law.*
- RENO, WILLIAM L. (1948), B.A., M.A., Princeton; Ph.D., California. *Professor of Political Science and Public Administration.*
- ROBBINS, JAMES J. (1941), B.A., California; M.A., Harvard; Ph.D., Princeton. *Professor of Political Science.*
- ROBERTSON, JEAN C. (1952), B.A., M.A., University of Kansas. *Instructor in the American Language Center.*
- ROGERS, HORATIO R. (1947), B.A., Chicago; LL.B., Harvard. *Professor of Law.* On leave 1950-1953.
- ROTH, HAROLD H. (1946), B.A., College of the City of New York; M.A., Columbia; M.A., American. *Associate Professor of Public Administration.*
- SCHUBERT, LEO (1950), B.S., City College, New York; M.A., New York University. *Assistant Professor of Chemistry.*
- SCHULZE, HUGO (1947), B.S., American. *Assistant Professor of Physical Education.*
- SECKLER-HUDSON, CATHERYN (1933), B.S., Northeast Missouri State Teachers; M.A., Missouri; Ph.D., American. *Professor of Political Science and Public Administration.*
- SHARP, SAMUEL L. (1950), LL.M., J.D., Warsaw. *Associate Professor of International Relations and Organization.*
- SHEARS, HELEN H. (1952), Certificate, Wilson Teachers College. *Instructor in the American Language Center.*
- SHENTON, WALTER F. (1925), B.Sc., M.A., Dickinson; Ph.D., Johns Hopkins. *Professor of Mathematics.*
- SHERRARD, ALFRED (1947), B.S., Harvard; M.A., Columbia. *Associate Professor of Economics.*
- SIMHA, GENEVIEVE (1951), B.A., Antioch College; B.S. in L.S., Columbia. *Instructor in Library Science.*
- SITTERLY, BANCROFT W. (1947), B.A., M.A., Ph.D., Princeton. *Professor of Mathematics.*
- SMITH, GORDON (1947), B.M., Wooster; M.A., Mills. *Assistant Professor of Music.*
- SMITH, JOHN H. (1947), B.A., Iowa State Teachers; M.B.A., Ph.D., Chicago. *Professor of Statistics.*
- SOMMER, LOUISE (1952), Ph.D., Basle. *Visiting Professor of Economics.*
- STEINER, GEORGE (1951), B.M., M.M., Peabody; B.S., Johns Hopkins. *Assistant Professor of Music.*
- STOWELL, ELLERY C. (1922), B.A., Harvard; Docteur en Droit, Paris; Graduate of the Ecole libre des Sciences politiques, Paris. *Emeritus Professor of International Law.*
- SUMMERFORD, BEN LONG (1950), B.A., American; Ecole Nationale Supérieure des Beaux Arts, Paris. *Instructor in Art.*
- SWARTHOUT, EVELYN (1951), B.M., Kansas; Tobias Matthay Piano School, London. *Assistant Professor of Music.*
- TAYLOR, WILLIAM CLARK (1908), LL.B., LL.M., Georgetown. *Emeritus Professor of Law.*
- TRUEBLOOD, CHARLES K. (1949), B.S., Earlham; B.S., Haverford; M.A., Ph.D., Harvard. *Professor of Psychology.*
- ULMER, J. MELVILLE (1943), B.S., M.A., New York University; Ph.D., Columbia University. *Professor of Economics.*
- VAN DER SLICE, AUSTIN (1946), B.A., M.A., Kansas; Ph.D., Pennsylvania. *Professor of Sociology.*
- VON ABELE, RUDOLPH (1947), B.A., Ph.D., Columbia. *Associate Professor of Communication.*

- WEITZMAN, ELLIS (1946), B.A., Emory; M.A., Creighton; Ph.D., Nebraska. *Professor of Psychology.*
- WELSH, CHARLES A. (1948), B.S., M.A., Ph.D., New York University. *Professor of Economics.* On leave 1952-1953.
- WIGGINS, AUDREY (1950), B.S., Maryland. *Instructor in Physical Education and Health.*
- WOODS, GEORGE B. (1925), B.A., Northwestern; M.A., Ph.D., Harvard. *Emeritus Professor of English.*
- WYATT, KATHRYN D. (1945), B.A., Meredith; M.A., Middlebury Language School. *Assistant Professor of Modern Languages.*
- WYTHE, ZOE (1948), B.A., M.A., George Washington. *Instructor in French and Spanish.*
- ZICKEFOOSE, GUY (1948), B.A., Davis-Elkins; M.C.S., Benjamin Franklin. *Assistant Professor of Accounting.*

ADJUNCT PROFESSORS

- BICKFORD, HUGH C. (1952), LL.B., National; B.S., M.A., American. *Adjunct Professor of Economics.*
- BLACK, LLOYD D. (1946), B.A., Toronto, M.A., Clark; Ph.D., Michigan. *Adjunct Professor of Geography.*
- BLANCHE, ERNEST E., B.A., M.A., Bucknell; Ph.D., Illinois. *Adjunct Professor of Statistics.*
- BOCK, BENJAMIN (1948), B.S., City College of New York; M.A., George Washington; Ph.D., Stanford. *Adjunct Professor of International Relations and Organization.*
- BROOKER, FLOYDE E. (1944), B.A., Kent; B.A., Marietta; M.A., Columbia. *Adjunct Professor of Communication.*
- BUCK, SOLON JUSTUS (1937), B.A., M.A., Wisconsin; Ph.D., Harvard. *Adjunct Professor of History and Archival Administration.*
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